TRICKS & TIPS

Android Smartphones & Tablets

Everything you need to take your Android powered device to the next level

- We share our awesome tips and shortcuts for your Android device

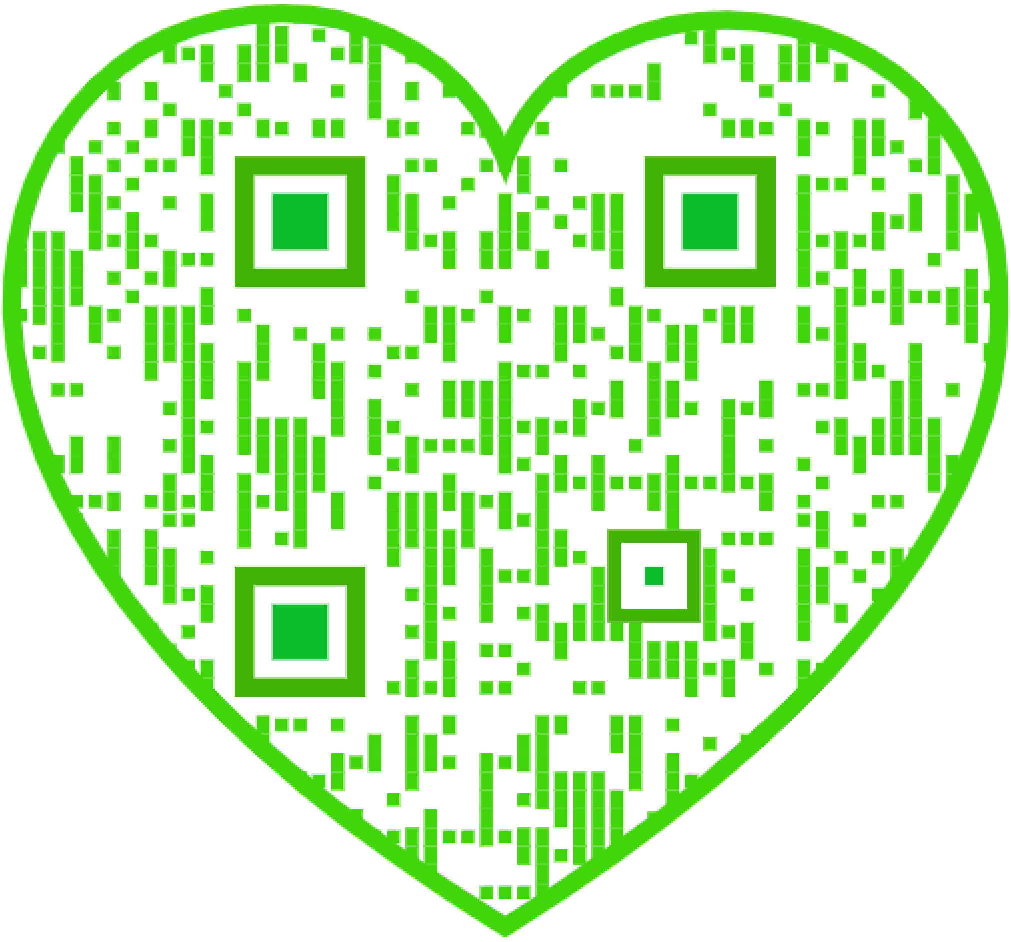
OVER 480 SECRETS & HACKS

- Next level secrets and fixes get you to the heart of the Android OS

- Advanced guides and tutorials for your Android tablet and smartphone

100% INDEPENDENT

Papercut



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TRICKS
& TIPS

Android
Smartphones & Tablets

Android Tricks & Tips is the perfect digital publication for the user that wants to take their skill set to the next level. Do you want to enhance your user experience? Or wish to gain insider knowledge? Do you want to learn directly from experts in their field? Learn the numerous short cuts that the professionals use? Over the pages of the new advanced user guide you will learn everything you will need to know to become a more confident, better skilled and experienced owner. A user that will make the absolute most of their use and ultimately their Android device itself. An achievement you can earn by simply enabling us to exclusively help and teach you the abilities we have gained over our decades of experience.

Over the page our journey continues, and we will be with you at every stage to advise, inform and ultimately inspire you to go further.

Contents

6 APPS & SOFTWARE

8 Find and Install Apps and Games

12 Manage Your Installed Apps

14 Plan Events and Tasks with Calendar

16 Chatting with Google Meet

18 Using Google Wallet on Android

20 Navigate with Google Maps

22 Local Search & Map Layers

24 DOING MORE WITH ANDROID

26 Using Android Pay

28 Erase & Reset an Android Device

30 5 Things That Can Affect Phone Signal

32 Using the Developer Options

34 Speed Up Android Animations

36 Hidden Android Test Menus

38 Save Web Pages Offline

40 Dealing with Viruses on Android

42 Disable Android Bloatware

44 Sideloading Android APK

46 Smart Home on a Budget

48 10 Android Security Tips

50 Clean Up with Smart Manager

52 10 Common Problems Solved

56 ADDITIONAL DEVICES & HARDWARE

58 What is a Chromebook?

61 Personalising Chrome OSw

64 The Chrome OS Desktop

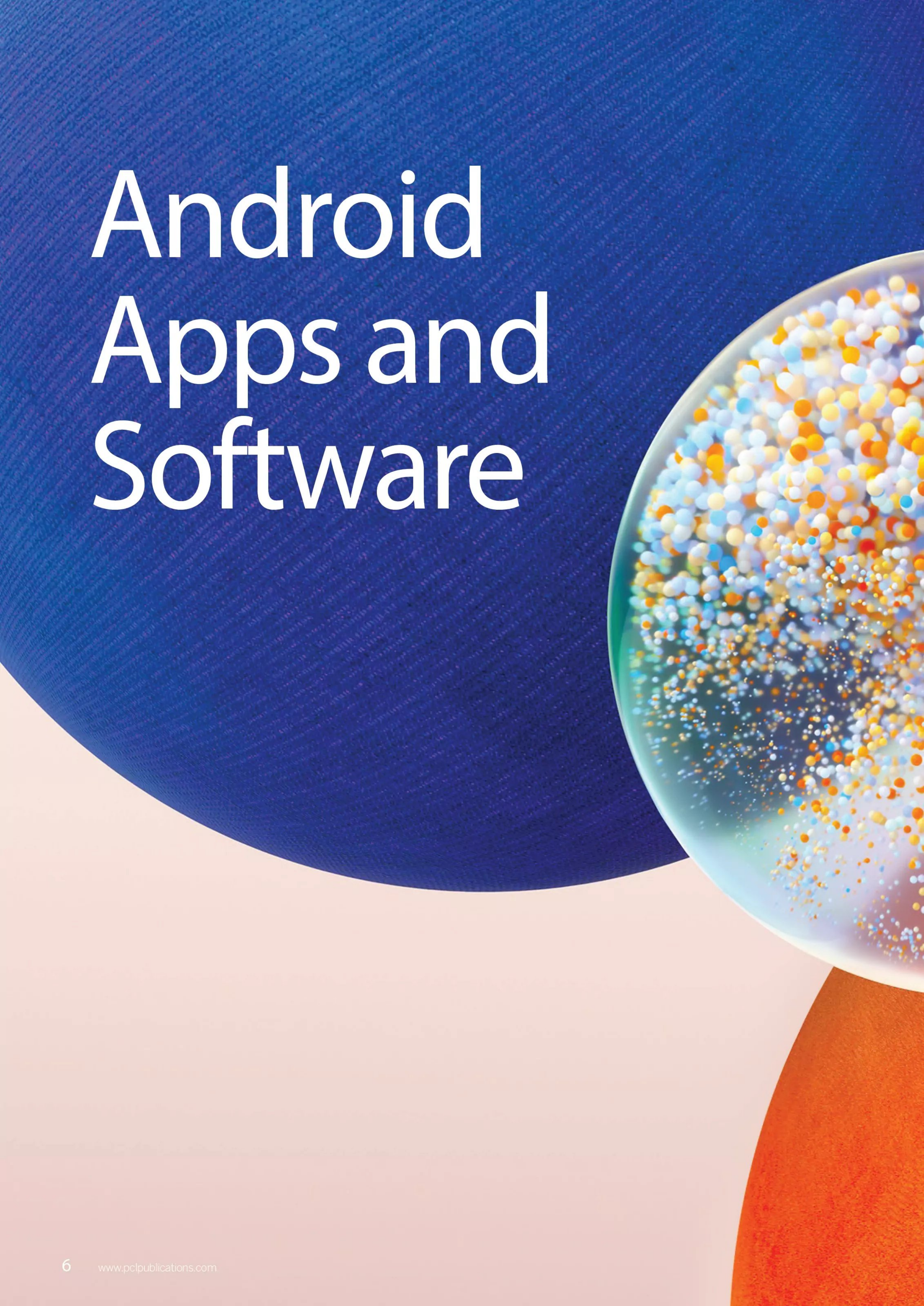
66 Google Home First Time Setup

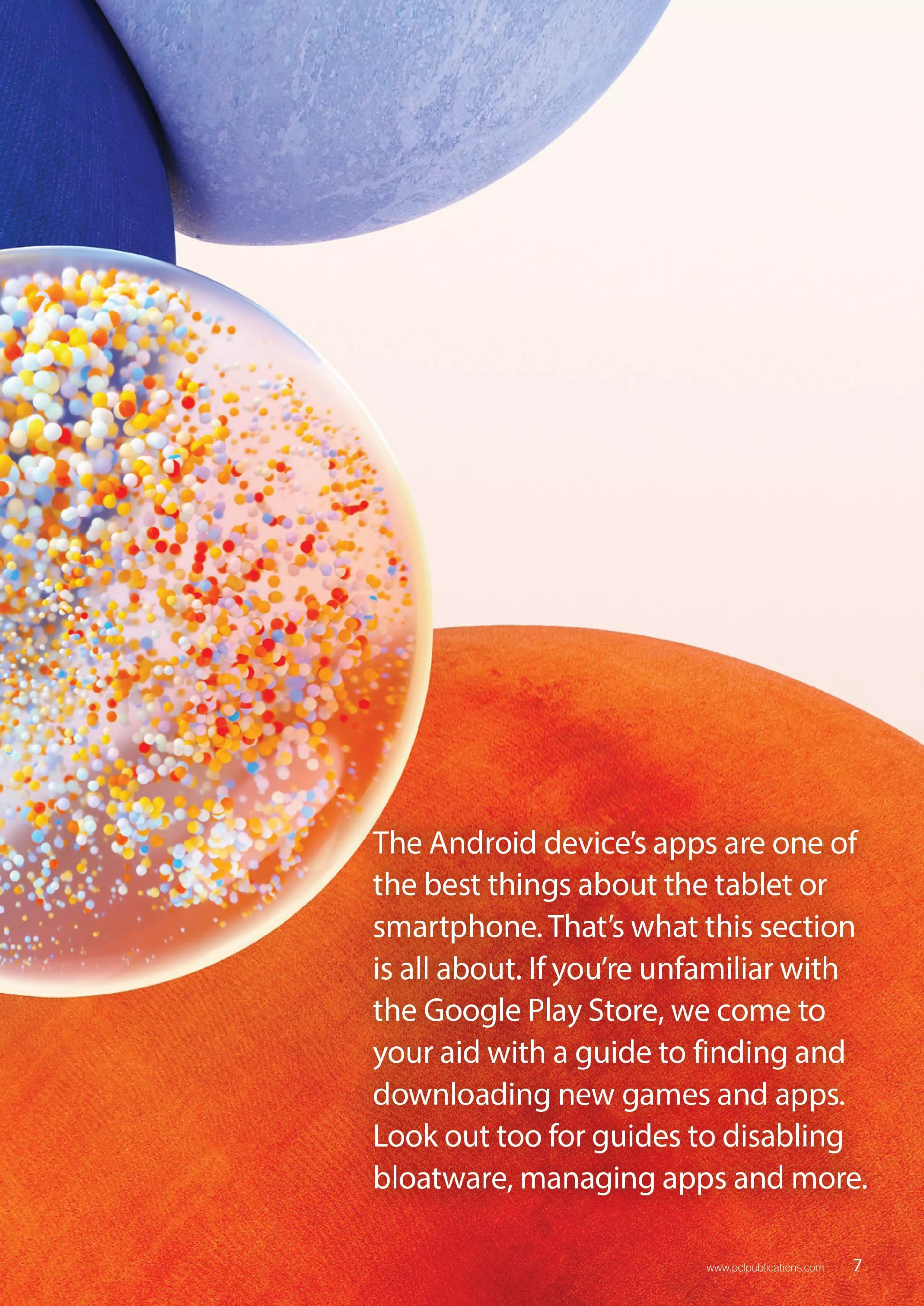
68 Listening to Music on Google Home

70 Playing Music Using Bluetooth

72 Google Home Routines

Android Apps and Software





The Android device's apps are one of the best things about the tablet or smartphone. That's what this section is all about. If you're unfamiliar with the Google Play Store, we come to your aid with a guide to finding and downloading new games and apps. Look out too for guides to disabling bloatware, managing apps and more.

Find and Install Apps and Games

All of the apps and games you could possibly want are available to download from the Google Play store, from WhatsApp and Viber to Mario Kart and Clash of Clans. The Play Store app is usually found on the Home screen of new devices, but can be in the app drawer. If you want to get the most from your Android device, the Play store is the key.

Exploring the Play Store

Getting used to navigating and using the Play Store is one of the first things you should do if you're new to the Android operating system.

1 Google Play Menu

The search field is always visible when browsing any category in Google Play. Search in Apps & Games and the results are apps. If you search in Books, the results only includes books. You can also use voice search by tapping the Mic icon.

2 Account Settings

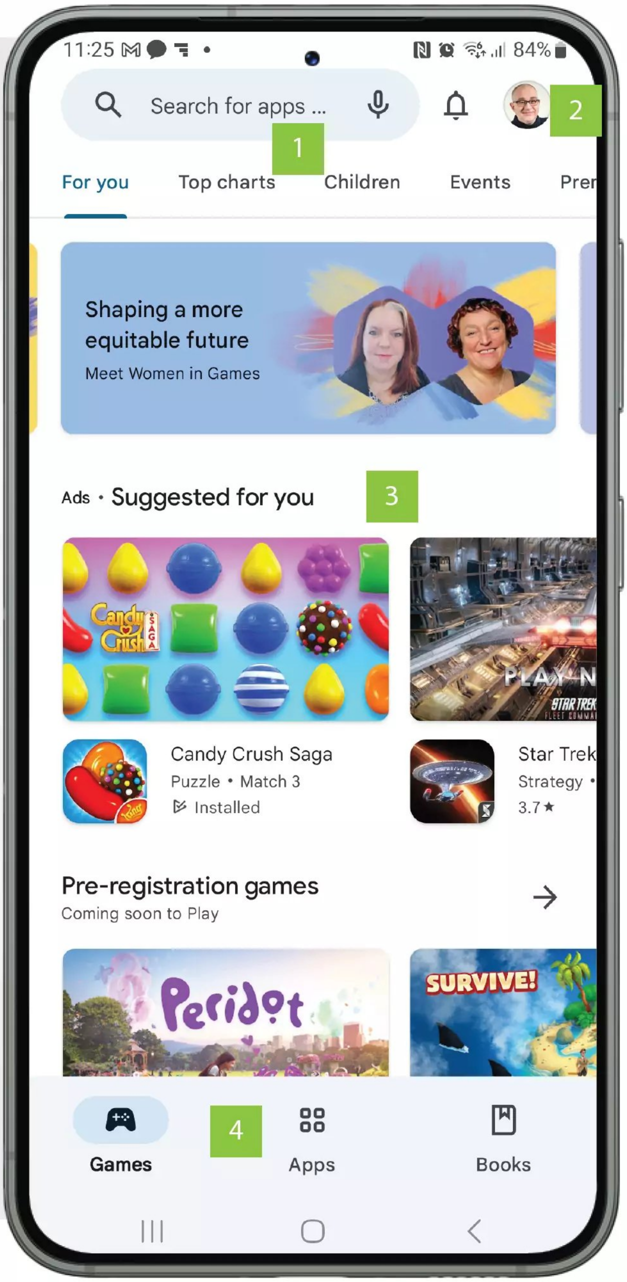
When you open the Play Store, the default screen shows apps and games recommended for you. Tap your icon here to access account settings, see your installed apps, view notifications and subscriptions, and lots more.

3 App Gallery

You can scroll down the main screen of the Play Store to see various app galleries. These range from New & Updated to apps that are specifically recommended for you personally. Scroll left or right to see more in each category.

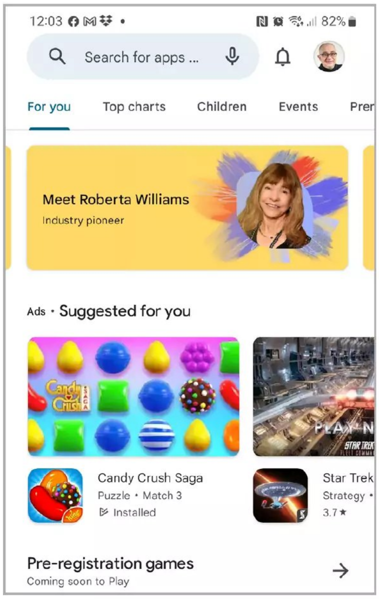
4 Store Sections

These buttons at the bottom of the screen take you to the different sections within the Play Store. These include Games, Apps and Books. You can also look for Books in its dedicated app. For films and television, use the Google Play Movies & TV app.

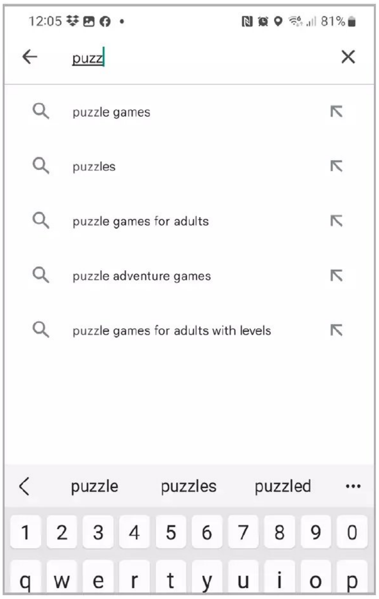

11:25
84%
Search for apps ...
1
2
For you
Top charts
Children
Events
Pre
Shaping a more equitable future
Meet Women in Games
Ads • Suggested for you
3
Candy Crush Saga
Puzzle • Match 3
Installed
Star Trek
Strategy •
3.7 ★
Pre-registration games
Coming soon to Play
SURVIVE!
Games
4
Apps
Books

Finding Apps and Games

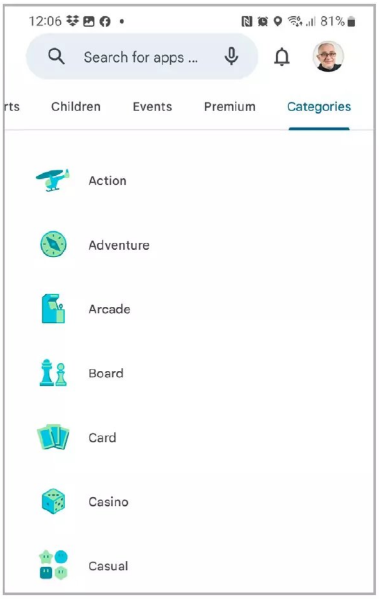
Tap the Play store icon on the Home screen, and the app opens to show the Play store main screen.


12:03
82%
Search for apps ...
For you
Top charts
Children
Events
Prer
Meet Roberta Williams
Industry pioneer
Ads • Suggested for you
Candy Crush Saga
Puzzle • Match 3
Installed
Star Trek
Strategy •
3.7 ★
Pre-registration games
Coming soon to Play

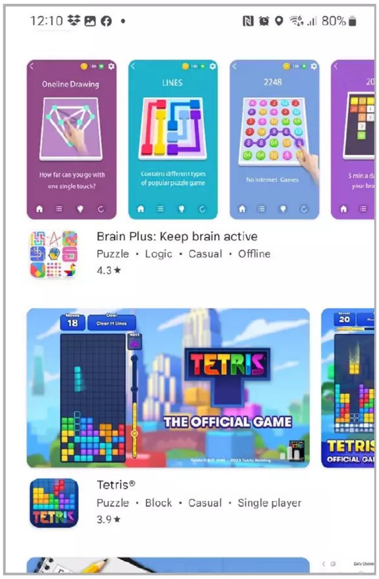
1 The first screen you will see in the app store is called For you, and contains recommendations based on usage. If you search for, and download, a particular type of app or game, similar apps and games will appear on this screen in the future. Use the tabs at the bottom to change store sections.


12:05
81%
puzz
puzzle games
puzzles
puzzle games for adults
puzzle adventure games
puzzle games for adults with levels
puzzle
puzzles
puzzled
1 2 3 4 5 6 7 8 9 0
q w e r t y u i o p

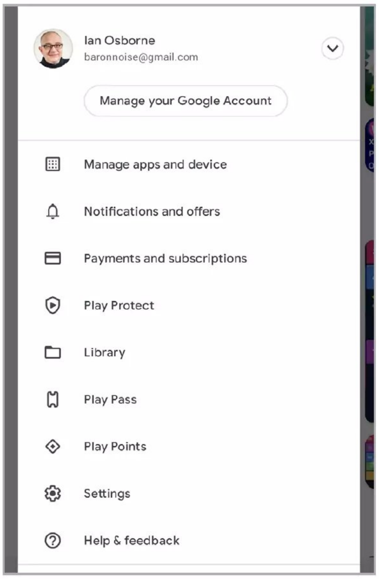
2 The search bar at the top of the screen allows you to search for apps and other content by name, if you know what you are looking for. Searching while in any of the main Store sections will return results only for that section; searching in Books for example just shows books in the results.


12:06
81%
Search for apps ...
rts
Children
Events
Premium
Categories
Action
Adventure
Arcade
Board
Card
Casino
Casual

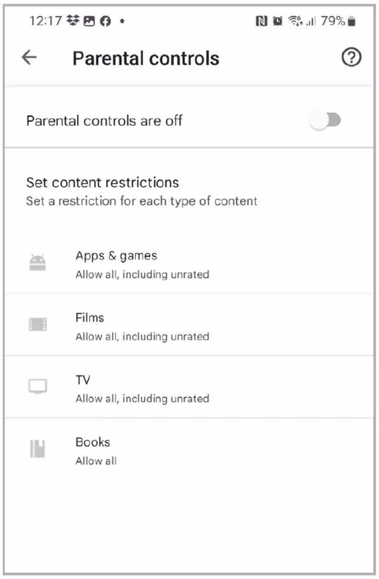
3 If you want to browse all available apps of a specific type, tap the Categories button in the scrolling menu at the top of the screen. Choose the category you want to browse from the list. You can also choose one of the promoted categories from this same scrolling menu.


12:10
80%
Oneline Drawing
LINES
2248
Brain Plus: Keep brain active
Puzzle • Logic • Casual • Offline
4.3 ★
TETRIS
THE OFFICIAL GAME
Tetris®
Puzzle • Block • Casual • Single player
3.9 ★

4 Scroll down the main page of the app store and you will see recommendations, offers, and other content available. As you begin to install apps, this will change, reflecting your previous choices and offering recommendations. You can scroll any of these sections left and right to see more.


Ian Osborne
baronnoise@gmail.com
Manage your Google Account
Manage apps and device
Notifications and offers
Payments and subscriptions
Play Protect
Library
Play Pass
Play Points
Settings
Help & feedback

5 Tap your account button at the top left to see your account information. Here you can manage your apps, your device and your notifications, check on your payments and subscriptions, access your Library, Play Pass, Play Points and more. Tap the button to Manage your Google Account too.


12:17
79%
Parental controls

Parental controls are off

Set content restrictions
Set a restriction for each type of content

Apps & games
Allow all, including unrated

Films
Allow all, including unrated

TV
Allow all, including unrated

Books
Allow all

6 The Play Store menu also gives you access to the settings; letting you control things like Notifications, Download preferences, Auto-update settings and Parental controls. You can also allow biometric authentication for Play Store purchases, and check the build version.

Using the App Information Screen

There is a lot of information to be found here, from the number of downloads and screenshots, to user reviews and permissions.

1 App Title and Rating

At the top is the name of the app, along with the developer's name (tap to see more from that developer) and the PEGI suitability rating. You can also see the user rating, out of five stars, and the approximate number of downloads an app or game has had.

2 Install/Purchase

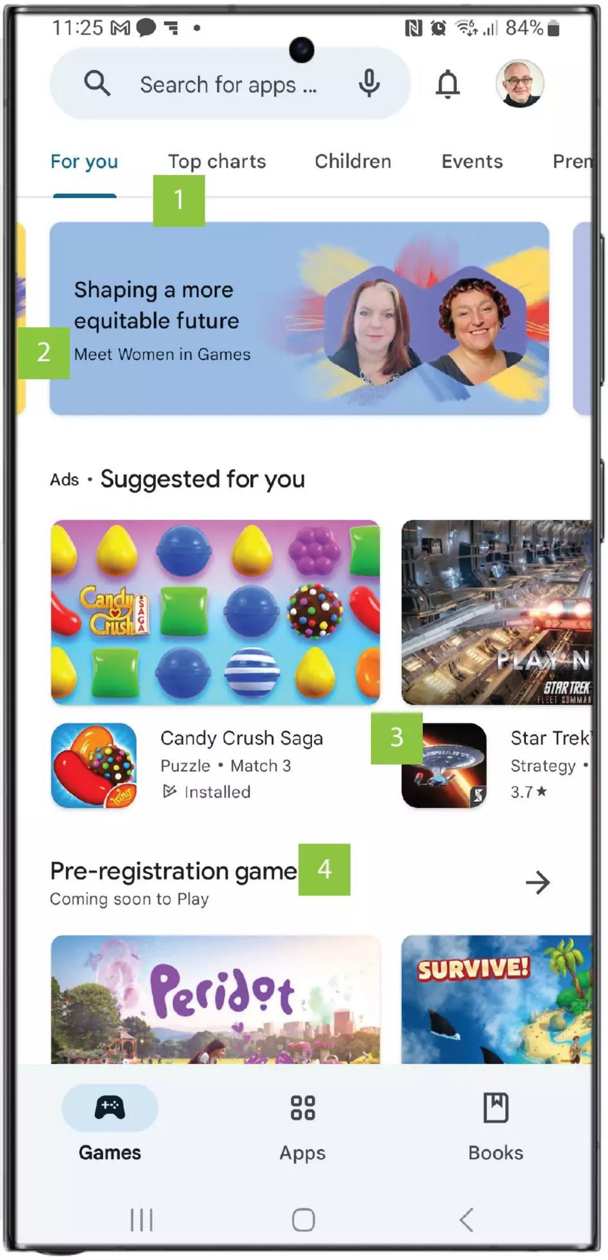
Tap the Install button to begin the installation process. You will have a chance to confirm or cancel the installation. If the app is a premium (paid) app, this button will show the price and then tapping it will open the payment method confirmation window.

3 App Screenshots

Here you can view images and videos of the app, letting you further explore what the app does before installing. Scroll the images to the left to see more. Tapping on any of the images or videos will open them to full screen, so you can view them better.

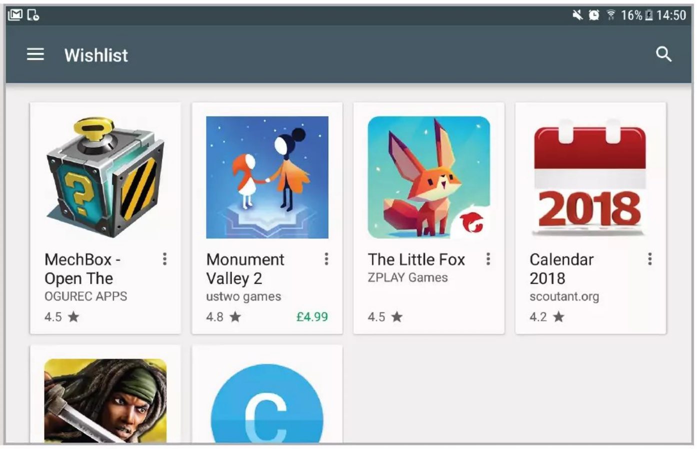
4 App Description

All apps and games should have at least some sort of description, letting you read more about what an app or game does. Below this, if you scroll down, are app user reviews, developer contact details and recommendations of similar apps you might like.


11:25
84%
Search for apps ...
For you
Top charts
Children
Events
Pren
1
Shaping a more equitable future
Meet Women in Games
2
Ads • Suggested for you
Candy Crush Saga
Puzzle • Match 3
Installed
3
Star Trek
Strategy •
3.7 ★
PLAY N
STAR TREK
FLEET COMMAND
Pre-registration game
4
Coming soon to Play
Peridot
SURVIVE!
Games
Apps
Books

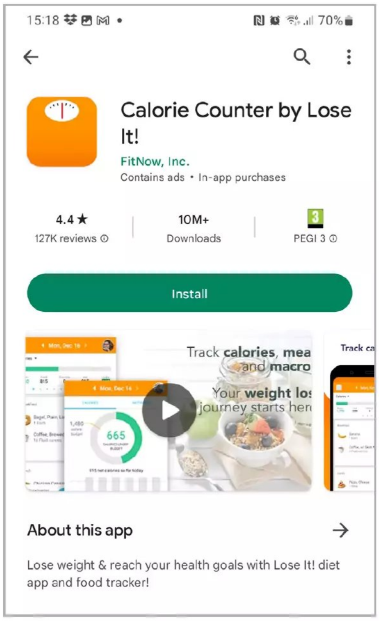
Create a Wishlist

> The Google Play Store allows you to add apps and games, along with other content, to a Wishlist. You can add items to the list by tapping the small Menu icon at the top right of the app info screen. You will then be notified if an item on your Wishlist changes. You can view your Wishlist at any time by tapping the Menu button at the top left and selecting Wishlist.


16% 14:50
Wishlist
MechBox - Open The
OGUREC APPS
4.5 ★
Monument Valley 2
ustwo games
4.8 ★
£4.99
The Little Fox
ZPLAY Games
4.5 ★
Calendar 2018
scoutant.org
4.2 ★
2018

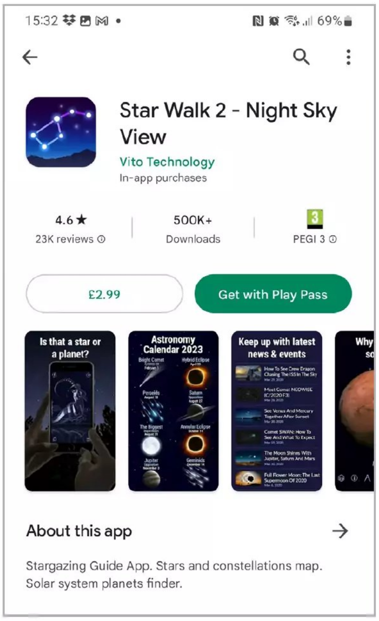
Installing Apps and Games

Installing apps and games is fairly easy and only really varies depending on whether the app is free or paid for.


15:18
70%
Calorie Counter by Lose It!
FitNow, Inc.
Contains ads • In-app purchases
4.4★
127K reviews
10M+
Downloads
3
PEGI 3
Install
Track calories, meal and macro
Your weight loss journey starts here
665
About this app

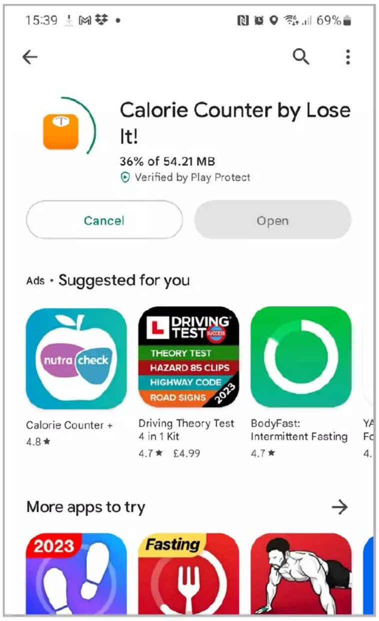
Lose weight & reach your health goals with Lose It! diet app and food tracker!

1 When you find an interesting app, tap the thumbnail to open the info screen. Everything you need to know about the app can be found here, from download statistics and screenshots, to user ratings, reviews, and similar app suggestions.

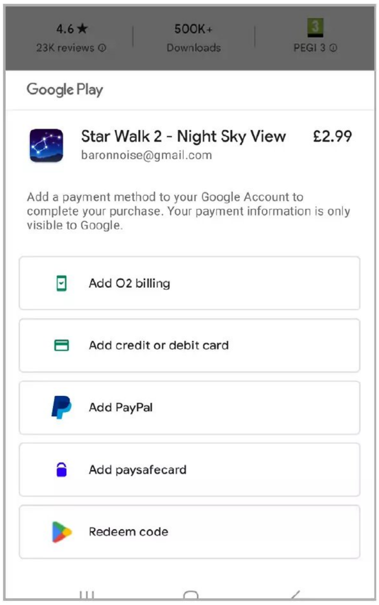

15:32
69%
Star Walk 2 - Night Sky View
Vito Technology
In-app purchases
4.6★
23K reviews
500K+
Downloads
3
PEGI 3
£2.99
Get with Play Pass
Is that a star or a planet?
Astronomy Calendar 2023
Keep up with latest news & events
About this app

Stargazing Guide App. Stars and constellations map. Solar system planets finder.

2 Free apps will have an Install button while paid apps will have a button displaying the price in your regional currency. After tapping the Install button, you will be shown the Permissions the app requires. These will vary from app to app. Tap Accept.

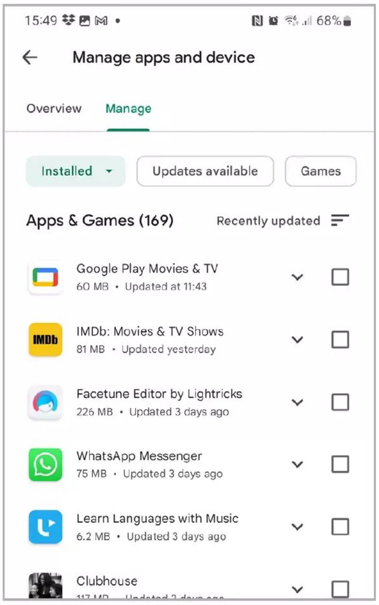

15:39
69%
Calorie Counter by Lose It!
36% of 54.21 MB
Verified by Play Protect
Cancel
Open
Ads • Suggested for you
Calorie Counter + 4.8★
Driving Theory Test 4 in 1 Kit 4.7★ £4.99
BodyFast: Intermittent Fasting 4.7★
More apps to try
2023
Fasting

3 The app will now download and automatically install on your device. The button on the app info screen will then change to say Open, allowing you to try the app straight away. An Uninstall or Refund (if a paid app) button is also added to the screen.

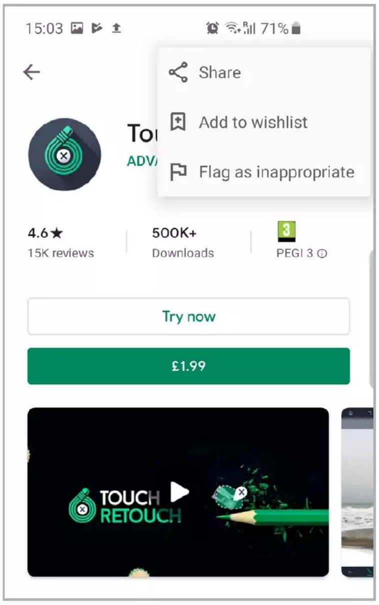

4.6★
23K reviews
500K+
Downloads
PEGI 3
Google Play
Star Walk 2 - Night Sky View
£2.99
baronnoise@gmail.com
Add O2 billing
Add credit or debit card
Add PayPal
Add paysafecard
Redeem code

Add a payment method to your Google Account to complete your purchase. Your payment information is only visible to Google.

4 If the app is a paid or premium app, after the Permissions screen you will need to enter your Google account password to authenticate the purchase. If you don't have a payment service set up, you will be asked to add one before you can continue.


15:49
68%
Manage apps and device
Overview
Manage
Installed
Updates available
Games
Apps & Games (169)
Recently updated
Google Play Movies & TV
60 MB • Updated at 11:43
IMDb: Movies & TV Shows
81 MB • Updated yesterday
Facetune Editor by Lightricks
226 MB • Updated 3 days ago
WhatsApp Messenger
75 MB • Updated 3 days ago
Learn Languages with Music
6.2 MB • Updated 3 days ago
Clubhouse

5 It's easy to see which apps you have installed from within the Google Play Store. Tap your account button, then Manage apps and devices, then tap the Manage tab. This not only shows you the apps you have installed but all apps you have downloaded.


15:03
71%
Share
Add to wishlist
Flag as inappropriate
4.6★
15K reviews
500K+
Downloads
3
PEGI 3
Try now
£1.99
TOUCH RETOUCH

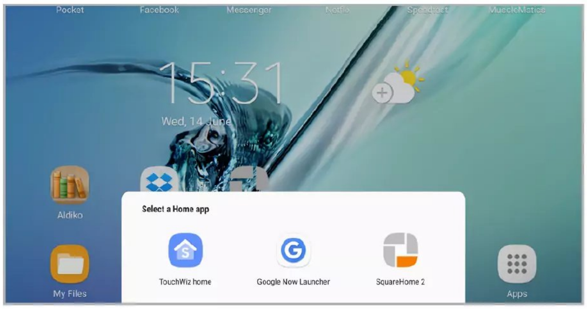
6 We all make mistakes and if you download a paid app and decide that you have made a mistake, as long as you act within 2 hours of purchase, getting a refund is easy; just go to the app screen in Google Play and tap the Refund button.

Manage Your Installed Apps

As you add apps to your Android device, it becomes increasingly important to be able to manage them properly. The tips and tricks in this section introduce you to, amongst other things, the Application Management screen of your Android device, as well as showing you how to disable pre-installed apps and get problem apps working after a fault. Let's take a look at how to do it.

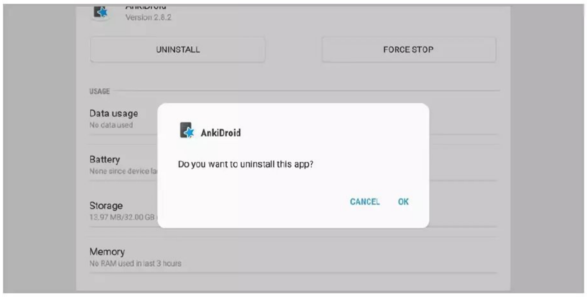
Android App Management

The app management options have changed slightly over time, so some older devices, or those running older versions of Android, may have fewer options than shown here. This tutorial gives you a good overview.


Pocket
Facebook
Messenger
Netflix
Speedtest
MuscleMotion
15:31
Wed, 14 June
Aldiko
My Files
Select a Home app
TouchWiz home
Google Now Launcher
SquareHome 2
Apps

Set App Defaults

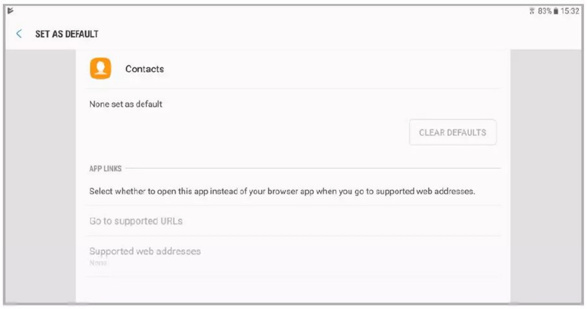
There are many apps available on Google Play that provide the same or similar functions to your phone or tablet's built-in tools. When you install one of these apps and then use a particular function it provides, Android will give you the option to make it the default app for that function.


AnkiDroid
Version 2.8.2
UNINSTALL
FORCE STOP
USAGE
Data usage
No data used
Battery
None since device la
Storage
13.97 MB/32.00 GB
Memory
No RAM used in last 3 hours
AnkiDroid
CANCEL
OK

Do you want to uninstall this app?

Removing Apps

Most apps take up just a few MB of space but if you wish to remove an app, the process is simple. Head to Settings > Applications > Application Manager. Select the app you wish to remove and then tap Uninstall. You can also remove apps by dragging them to the trash in the app drawer.

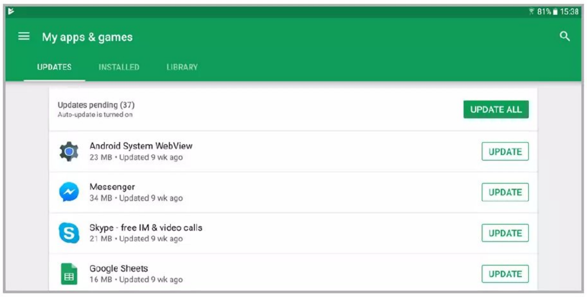

83% 15:32
SET AS DEFAULT
Contacts
CLEAR DEFAULTS
APP LINKS
Go to supported URLs
Supported web addresses
None

None set as default

Select whether to open this app instead of your browser app when you go to supported web addresses.

Reset App Defaults

If, for any reason, you decide that the default app you have chosen is not the one you want to use all the time, you can easily remove its default status. Go to Settings > Applications > Default Applications, here you can choose the function you want to alter and then choose the app to assign to it.


81% 15:38
My apps & games
UPDATES
INSTALLED
LIBRARY
UPDATE ALL
UPDATE
UPDATE
UPDATE
UPDATE

Updates pending (37)
Auto-update is turned on

Android System WebView
23 MB · Updated 9 wk ago

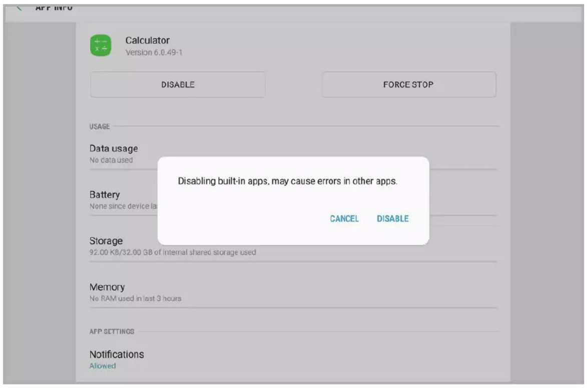
Messenger
34 MB · Updated 9 wk ago

Skype - free IM & video calls
21 MB · Updated 9 wk ago

Google Sheets
16 MB · Updated 9 wk ago

Check for App Updates

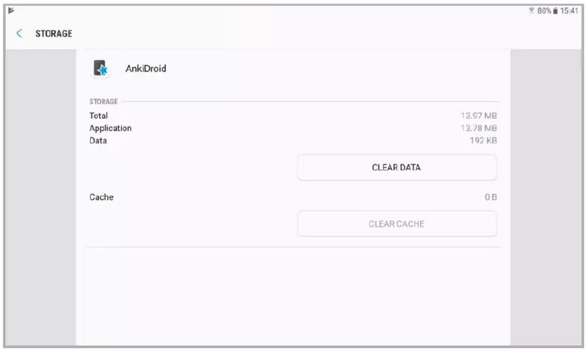
If you have tried clearing the cache and data, and the app is still not working properly, it is worth checking to see if there are any updates available for it. Open the Play Store and tap the Menu button. Select My Apps from the menu and check if the problem app has Update next to it.


APP INFO
Calculator
Version 6.0.49-1
DISABLE
FORCE STOP
USAGE
Data usage
No data used
Battery
None since device la
Storage
92.00 KB/32.00 GB of internal shared storage used
Memory
No RAM used in last 3 hours
APP SETTINGS
Notifications
Allowed
CANCEL
DISABLE

Disabling built-in apps, may cause errors in other apps.

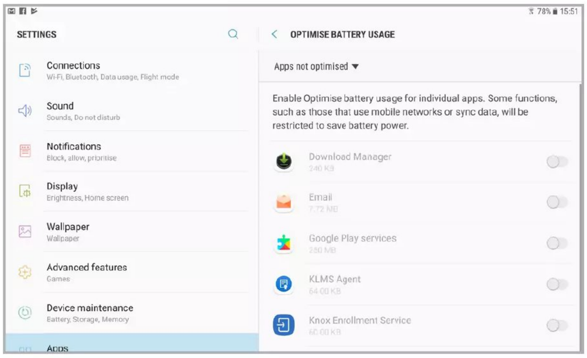
Disable Stock Apps

Newer versions of Android (Jelly Bean onwards) give you the option to disable apps that came preinstalled on your device.
Head into the Application Manager and select the app you want to disable. You will see that if there is not an Uninstall button, there is a Disable button instead.


80% 15:41
STORAGE
AnkiDroid
STORAGE
Total
Application
Data
13.97 MB
13.78 MB
192 KB
CLEAR DATA
Cache
0 B
CLEAR CACHE

Move Apps to SD Card

You can save space on your smart device by moving apps to your microSD card. Obviously, you will need an SD card inserted. Open the Application Manager, tap on the app you want to move, and then either tap Move to SD or tap Storage > Change > SD Card. System apps cannot be moved.


78% 15:51
SETTINGS
Connections
Wi-Fi, Bluetooth, Data usage, Flight mode
Sound
Sounds, Do not disturb
Notifications
Block, allow, prioritise
Display
Brightness, Home screen
Wallpaper
Wallpaper
Advanced features
Games
Device maintenance
Battery, Storage, Memory
Apps
OPTIMISE BATTERY USAGE
Apps not optimised
Download Manager
Email
Google Play services
KLMS Agent
Knox Enrollment Service

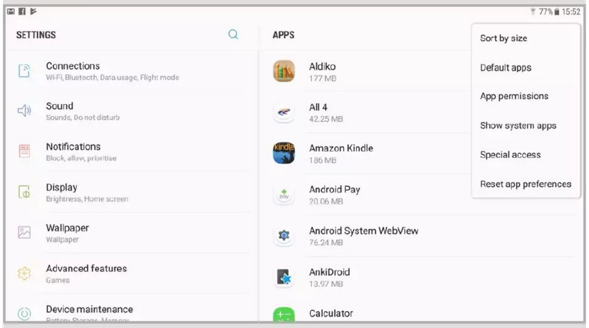
Enable Optimise battery usage for individual apps. Some functions, such as those that use mobile networks or sync data, will be restricted to save battery power.

Special Access

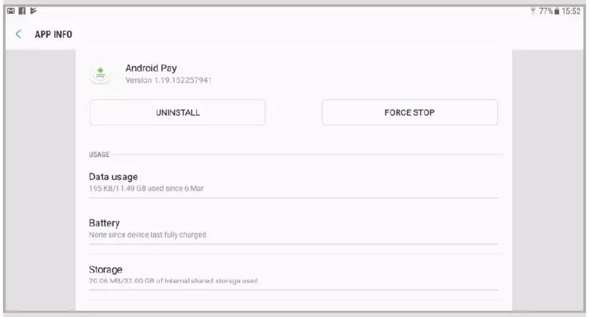
Depending on your Android device, you might be able to manage apps based on special access settings. Open Settings > Apps and tap the More button > Special Access. You can then set things like battery optimisation and Do Not Disturb settings for certain installed apps.

Fix Problem Apps

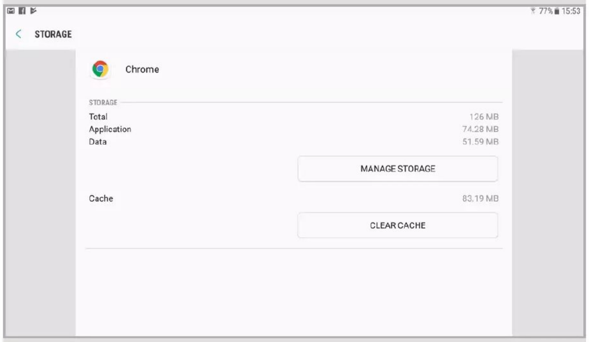
From time to time you might find that an app is not behaving as it should. You might see an error message pop-up on screen or you might not. Sometimes an app just won't seem to open.


77% 15:52
SETTINGS
Connections
Wi-Fi, Bluetooth, Data usage, Flight mode
Sound
Sounds, Do not disturb
Notifications
Block, allow, prioritise
Display
Brightness, Home screen
Wallpaper
Wallpaper
Advanced features
Games
Device maintenance
APPS
Aldiko
177 MB
All 4
42.25 MB
Amazon Kindle
186 MB
Android Pay
20.06 MB
Android System WebView
76.24 MB
AnkiDroid
13.97 MB
Calculator
Sort by size
Default apps
App permissions
Show system apps
Special access
Reset app preferences

1 Go to Settings > Applications > Application Manager and select the Enabled Apps tab at the top of the screen. Find the problem app in the list and tap on it to see the Application Info screen. You will then see several different things to try to get the app working.


77% 15:52
APP INFO
Android Pay
Version 1.19.152257941
UNINSTALL
FORCE STOP
USAGE
Data usage
155 KB/11.49 GB used since 6 Mar
Battery
None since device last fully charged
Storage
20.06 MB/32.00 GB of internal shared storage used

2 You can try the Force Stop. This sounds worse than it actually is. It simply forces the app to stop running. You can then try running the app again to see if it works properly. You can also try Clear Cache before you retry the app. This removes files and data that the app has stored.


77% 15:53
STORAGE
Chrome
STORAGE
Total
Application
Data
126 MB
74.28 MB
51.59 MB
MANAGE STORAGE
Cache
83.19 MB
CLEAR CACHE

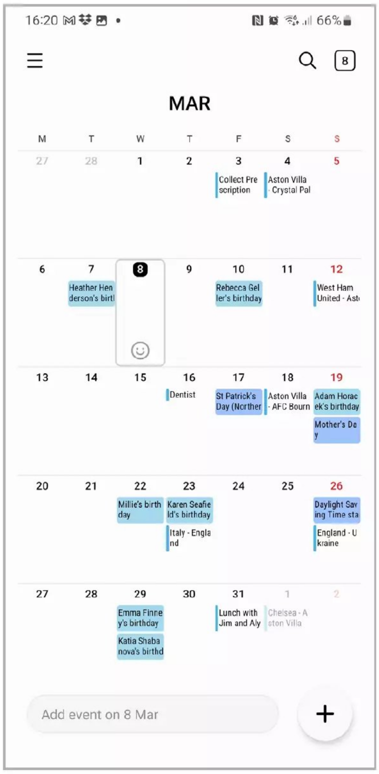
3 Your third option is Clear Data. This is more drastic (for the app) than clearing the cache and will remove stored password and settings. The fourth button on the App Info is self-explanatory. If nothing else has helped, Uninstall the app and then download it again.

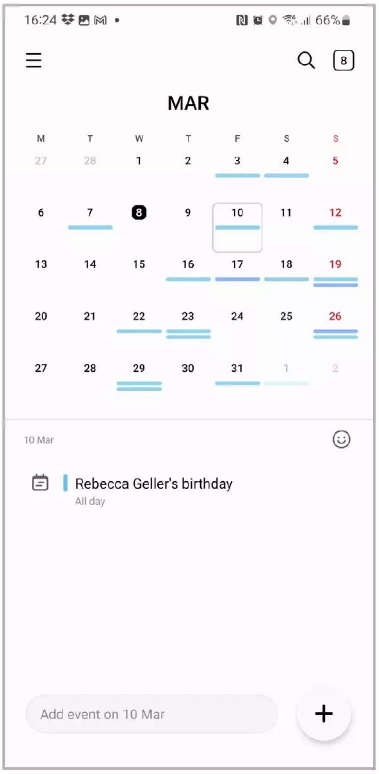
Plan Events and Tasks with Calendar

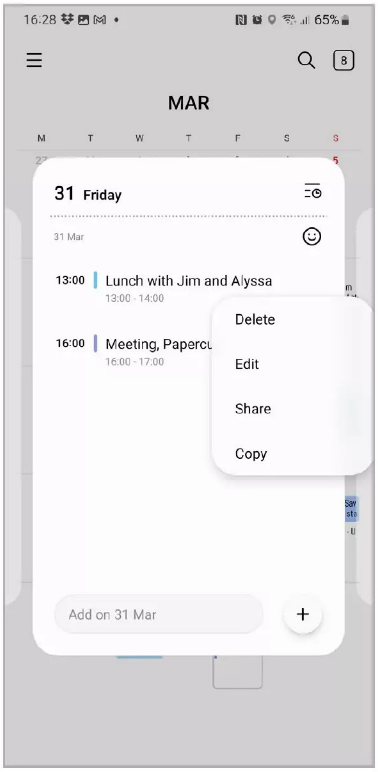
Although there are lots of good calendar apps available for Android devices, using the one included on your Android device ensures integration with several other stock apps. The interface is simple to use and you can even sync to an existing Google Calendar if you wish. It is also powerful enough to be used as the main and only productivity and planning app on your device.

Calendar View

You can easily change the view displayed by the app to suit your own needs or requirements, editing options such as which calendars are shown and which is the default view. Here's how to go about it in the Calendar app.


16:20
66%
MAR
M T W T F S S
Collect Prescription
Aston Villa Crystal Pal
Heather Henderson's birt
Rebecca Geller's birthday
West Ham United - Ast
Dentist
St Patrick's Day (Norther
Aston Villa - AFC Bourn
Adam Horacek's birthday
Mother's Day
Millie's birthday
Karen Seafield's birthday
Italy - England
Daylight Saving Time sta
England - Ukraine
Emma Finney's birthday
Katia Shabanova's birthd
Lunch with Jim and Aly
Chelsea - Aston Villa
Add event on 8 Mar


16:24
66%
MAR
M T W T F S S
10 Mar
Rebecca Geller's birthday
All day
Add event on 10 Mar


16:28
65%
MAR
31 Friday
31 Mar
13:00 Lunch with Jim and Alyssa
13:00 - 14:00
16:00 Meeting, Papercu
16:00 - 17:00
Delete
Edit
Share
Copy
Add on 31 Mar

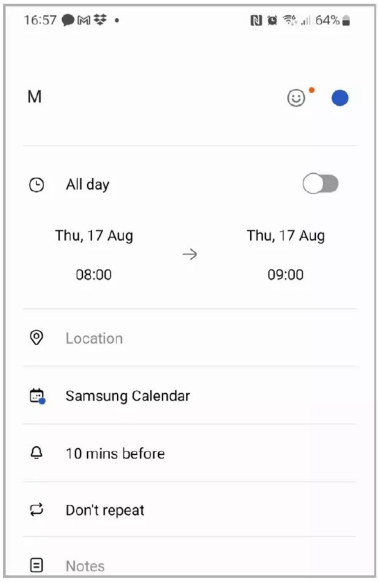
1 When you open the Android device's Calendar app you should see the default month view screen. The current day will be highlighted, and any known events or tasks will have a coloured line or label beneath the date. Tap the three-lines icon at the top of the screen to change to year, week, day or task view.

2 For most users, month view is the most useful but even this can be customised. Drag up from the bottom of the screen to reduce the size of the calendar and show information for the date selected below, up again to reduce the calendar to showing the current week, and down to go back again.

3 With the calendar in full screen mode, events and tasks will display on the dates with a small label. Tap any date with a label to see a pop-up containing more information. You can touch and hold on any event in this pop-up window to see further options for it, e.g. Delete, Edit and Share.

Create and Manage Events and Tasks

The Calendar app is powerful enough to be used as a fully-fledged event planner or to-do list maker.



16:57 · 64%

M

All day

Thu, 17 Aug 08:00 → Thu, 17 Aug 09:00

Location

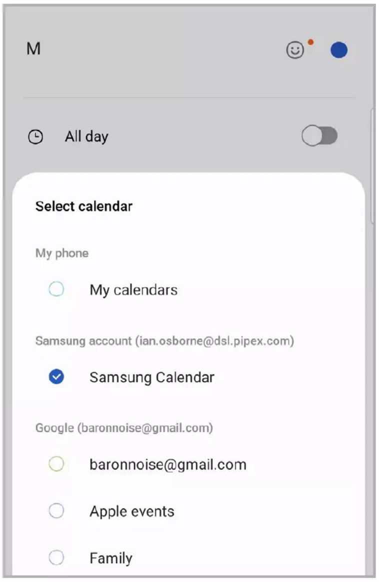
Samsung Calendar

10 mins before

Don't repeat

Notes

1 To add a new entry on the calendar, first scroll to the date you want to edit. You can do this by swiping your finger left and right across the screen to change months. You can now either double-tap on a date or tap the circular plus button at the bottom of the screen to begin a new event.



M

All day

Select calendar

My phone

○ My calendars

Samsung account (ian.osborne@dsl.pipex.com)

● Samsung Calendar

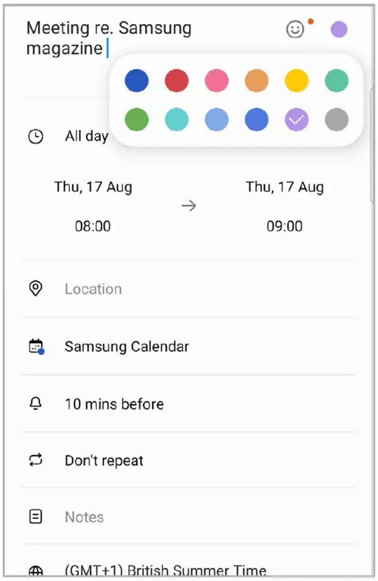
Google (baronnoise@gmail.com)

○ baronnoise@gmail.com

○ Apple events

○ Family

2 The first thing to do is choose the calendar where you want to save the event by tapping the Select Calendars section. You can have several different calendars displayed at any one time (including Google Calendar) or choose to show them all combined by selecting My Calendars.



Meeting re. Samsung magazine

All day

Thu, 17 Aug 08:00 → Thu, 17 Aug 09:00

Location

Samsung Calendar

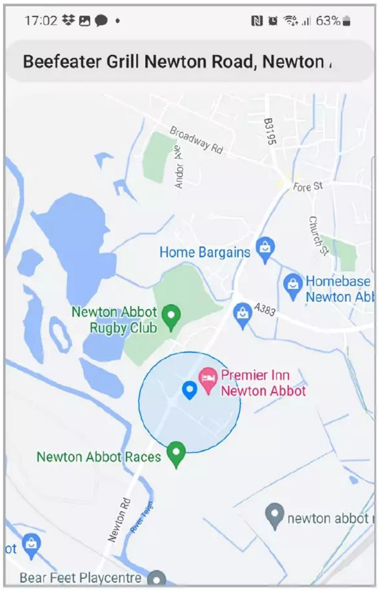
10 mins before

Don't repeat

Notes

(GMT+1) British Summer Time

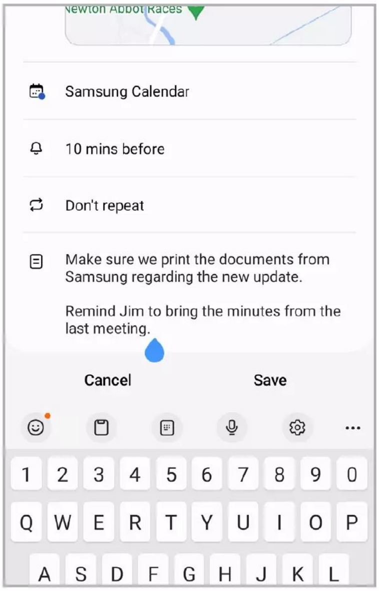
3 You can now enter a name for the event, assign it a colour by tapping the coloured circle, apply a sticker to it and choose a time for the event. The time you choose is when you will see a notification on your device alerting you of the event. Tap the alarm section to choose when the alert sounds.



17:02 · 63%

Beefeater Grill Newton Road, Newton

4 If you need to be reminded of where the event is taking place, you can add a map to the alert. Calendar will ask to access Location Services if this is not already enabled. You can deny access, and find the location manually, by scrolling or searching on the map that appears.



Newton Abbot Races

Samsung Calendar

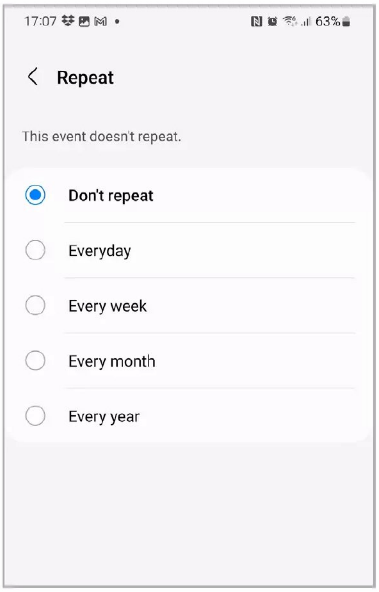
10 mins before

Don't repeat

Make sure we print the documents from Samsung regarding the new update.

Remind Jim to bring the minutes from the last meeting.

5 The notes section lets you turn a simple event reminder into something a bit more expansive, allowing you to include additional information in the alert when it arrives in your notifications.
You can also set an event to repeat daily, weekly, monthly, etc. if you need it to.



17:07 · 63%

Repeat

This event doesn't repeat.

● Don't repeat

○ Everyday

○ Every week

○ Every month

○ Every year

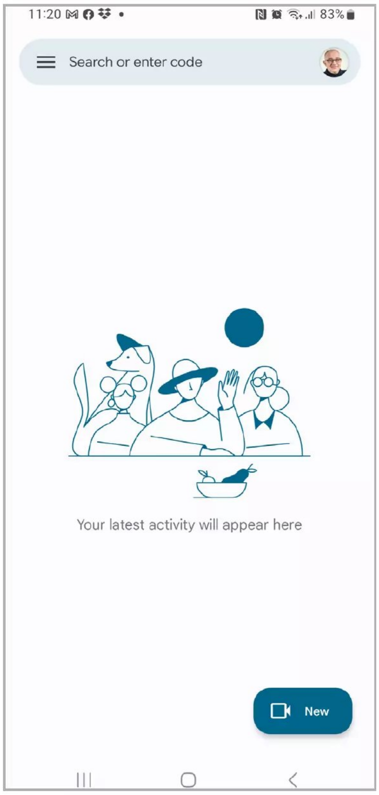
6 For regular events, tap 'Don't repeat' and you can choose to have the event occur at the same time every day, week, month or year. Tap the time zone at the bottom of the screen to change this. If it's an all-day event, tap the switch marked 'All day' at the top. When finished, tap Save.

Chatting with Google Meet

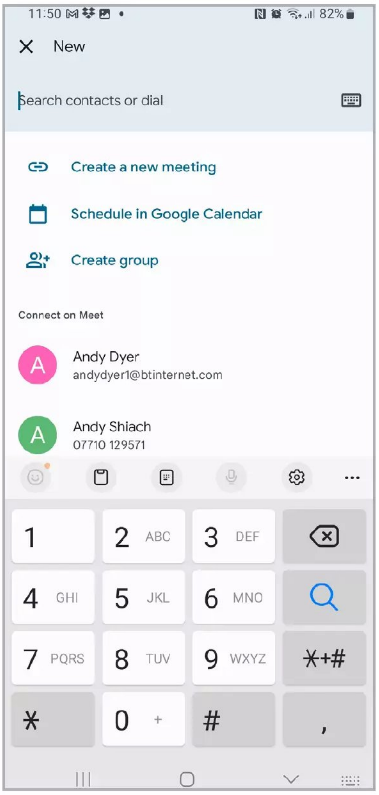
Video calling is the next best thing to being with someone in person but too often it can be a frustrating experience. You shouldn't have to worry about whether your call will connect or if your friend is using the same type of device. That's where Google Meet comes in. The successor to the popular Google Duo video chat app, Google Meet allows two or more people to make audio and video calls with a resolution up to 720p. With our help, you can keep in touch over the Internet.

Set Up Google Meet

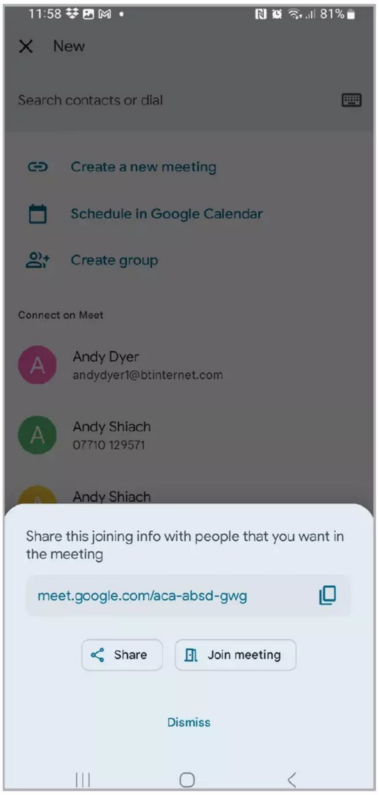
You can initiate a Google Meet call directly from the Google Meet app, or through Gmail or chat, and also schedule a meeting through the Calendar app. Here's a guide to setting up a Google Meet on your Android device.


11:20
83%
Search or enter code
Your latest activity will appear here
New

1 Open the Google Meet app. The first screen shows your latest activity, which will of course be blank when you first use the app. If you've been sent a code with which to launch a Google chat, put it in the top field here. Otherwise, tap the New button (bottom right).


11:50
82%
New
Search contacts or dial
Create a new meeting
Schedule in Google Calendar
Create group
Connect on Meet
Andy Dyer
andydyer1@btinternet.com
Andy Shiach
07710 129571
1
2 ABC
3 DEF
4 GHI
5 JKL
6 MNO
7 PQRS
8 TUV
9 WXYZ
*+#
*
0 +
#
,

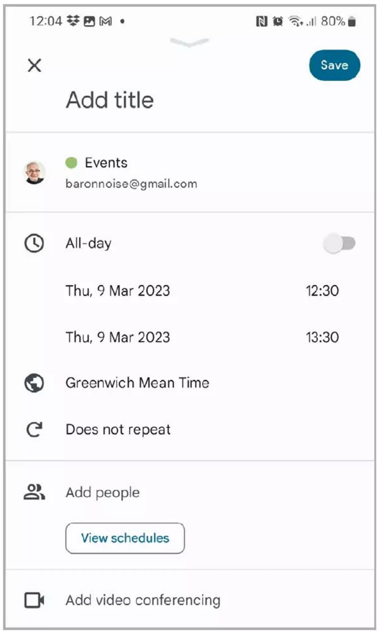
2 On the next screen, you can search your Contacts app using the field at the top of the screen, or dial a number directly. Tap the icon in the right of the search field to toggle the keyboard and dialler. Other options offered here are to create a new meeting, schedule a meeting or create a group.


11:58
81%
New
Search contacts or dial
Create a new meeting
Schedule in Google Calendar
Create group
Connect on Meet
Andy Dyer
andydyer1@btinternet.com
Andy Shiach
07710 129571
Andy Shiach
Share
Join meeting
Dismiss

Share this joining info with people that you want in the meeting

meet.google.com/aca-absd-gwg

3 Tap the Create a new meeting link and you're given a joining code, which you can share using the Share icon, using Messages, email and more. Tap the pages icon next to it to copy it to your clipboard. You can join the meeting from this window too.



12:04 80%

Save

Add title

Events
baronnoise@gmail.com

All-day

Thu, 9 Mar 2023 12:30

Thu, 9 Mar 2023 13:30

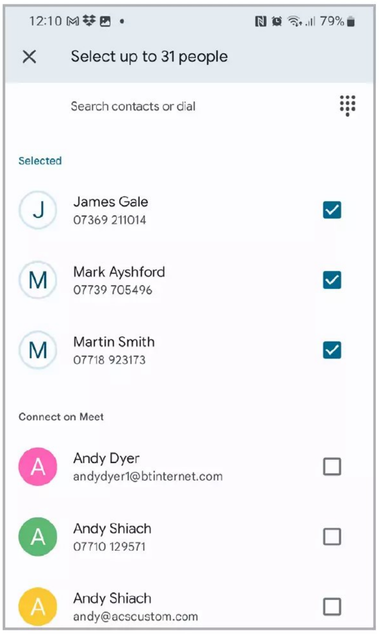
Greenwich Mean Time

Does not repeat

Add people

View schedules

Add video conferencing



12:10 79%

Select up to 31 people

Search contacts or dial

Selected

J James Gale 07369 211014 ☑

M Mark Ayshford 07739 705496 ☑

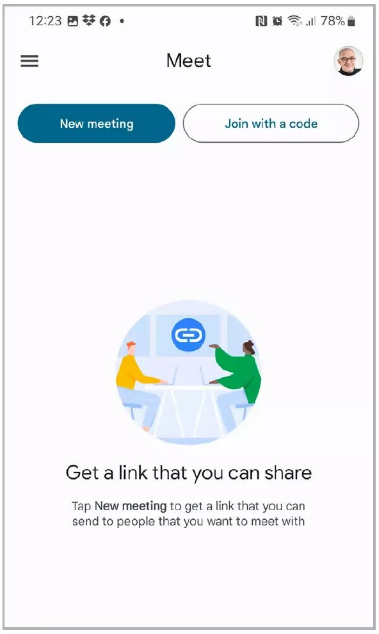
M Martin Smith 07718 923173 ☑

Connect on Meet

A Andy Dyer andydyer1@btinternet.com ☐

A Andy Shiach 07710 129571 ☐

A Andy Shiach andy@acscustom.com ☐



12:23 78%

Meet

New meeting

Join with a code

Get a link that you can share

Tap **New meeting** to get a link that you can send to people that you want to meet with

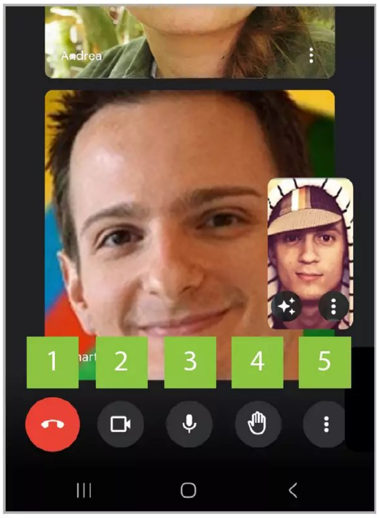
4 To schedule with Google Calendar, first install Google Calendar then use the link. Set the time and the date for the meeting, and tap Add People to add one or more guests. Tap Save at the top of the screen when you're done, and you can opt to notify your guests.

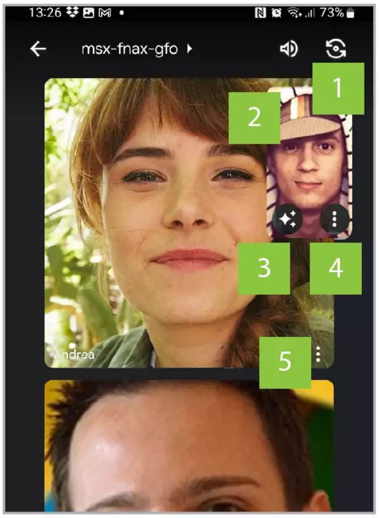
5 Tap the Create group link and you can scroll through, or search, your contacts, adding a person to your group by tapping the box to their right. When you've added as many people as you wish to the group, tap Next at the foot of the screen to proceed with sharing the group link.

6 To launch a Google Meet from Gmail, open the app and tap the video camera icon at the foot of the screen. You're taken to a screen from where you can tap New meeting for a sharable code, or Join with a code if you've been sent one yourself and want to get into the meet.

Chatting on Google Meet

After opening or joining a Google Meet video chat, these are the controls you can use during the conversation.





1 During a video chat, the main controls at the foot of the screen are: (1) End call; (2) Disable camera; (3) Disable mic; (4) Raise your hand, which places a hand icon on your feed – very useful for meetings; (5) Opens a menu for options such as screen sharing, settings, etc.

2 The icon (1) changes between front and rear camera. You can move your own feed (2) anywhere on the screen simply by dragging it there. The icons on your feed are (3) Add effects, and (4) a menu with options regarding your feed. (5) gives options regarding those feeds.

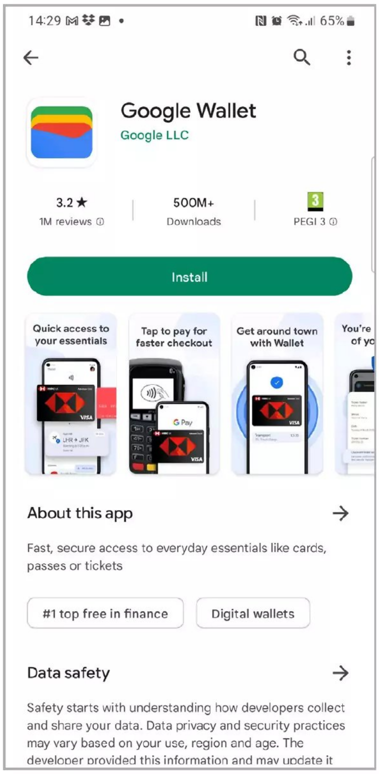
3 When using Google Meet, the people you're chatting to don't have to be on a Android device device, or even an Android phone. You can download the Google Meet app on iOS too, and if you're on a desktop or notebook computer, you just need a Chrome, Firefox, Microsoft Edge or Safari browser.

Using Google Wallet on Android

You already use your phone for just about everything. Now you can make payments with it too. Just add your credit, debit, loyalty and/or gift cards to Google Wallet and start shopping in stores, in apps and online. Google Wallet can be used at hundreds of thousands of shops around the world, wherever contactless payments are accepted, and it's quick and convenient too.

Setting Up Google Wallet

Google Wallet is a secure system, but as with anything to do with money and payments, it is important to make sure that you set everything up properly. With our help, it's not difficult to do. Here's how to go about it.


14:29
65%
Google Wallet
Google LLC
3.2★
1M reviews
500M+
Downloads
PEGI 3
Install
Quick access to your essentials
Tap to pay for faster checkout
Get around town with Wallet
You're
of yo

About this app

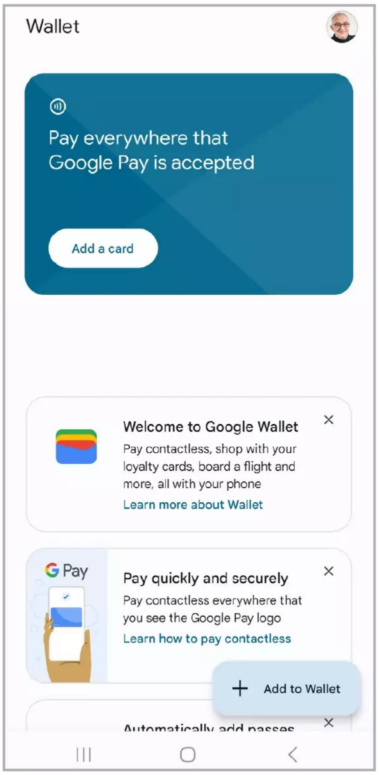
Fast, secure access to everyday essentials like cards, passes or tickets

#1 top free in finance
Digital wallets

Data safety

Safety starts with understanding how developers collect and share your data. Data privacy and security practices may vary based on your use, region and age. The developer provided this information and may update it

1 You make sure you have all the credit and debit cards you wish to register close at hand, and have all the details available (account numbers, sort codes, security numbers, etc.). You also need to download the Google Wallet app from Google Play, if you don't already have it.


Wallet

Pay everywhere that Google Pay is accepted

Add a card

Welcome to Google Wallet

Pay contactless, shop with your loyalty cards, board a flight and more, all with your phone

Learn more about Wallet

G Pay

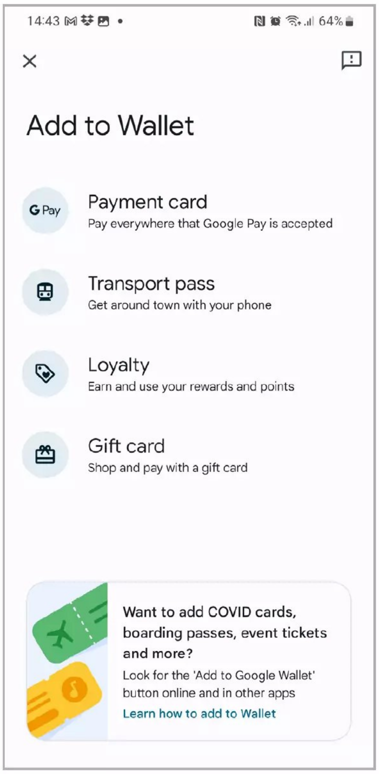
Pay quickly and securely

Pay contactless everywhere that you see the Google Pay logo

Learn how to pay contactless

Add to Wallet
Automatically add passes

2 Once installed, tap the App icon and get started. If you have more than one Google account, chose the one you want to use with the app. If you already have a credit or debit card registered to your Google account, it will be displayed along with the option to add a different card.



Add to Wallet

Payment card
Pay everywhere that Google Pay is accepted

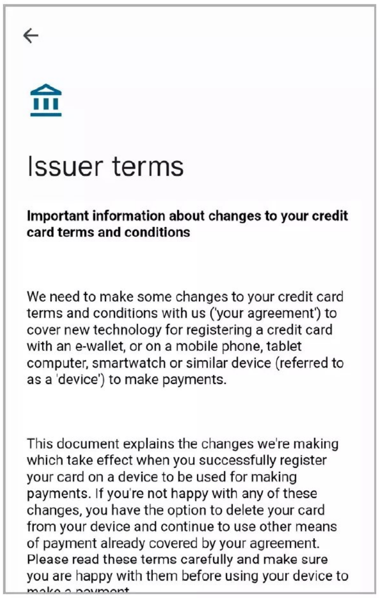
Transport pass
Get around town with your phone

Loyalty
Earn and use your rewards and points

Gift card
Shop and pay with a gift card

Want to add COVID cards, boarding passes, event tickets and more?
Look for the 'Add to Google Wallet' button online and in other apps
Learn how to add to Wallet

3 Tap Add to Wallet and choose a type of card to add. You now have to add information, including security information (we can't show a screenshot of this process, due to a security feature that prohibits the information being captured). Follow the on-screen instructions then accept the terms.



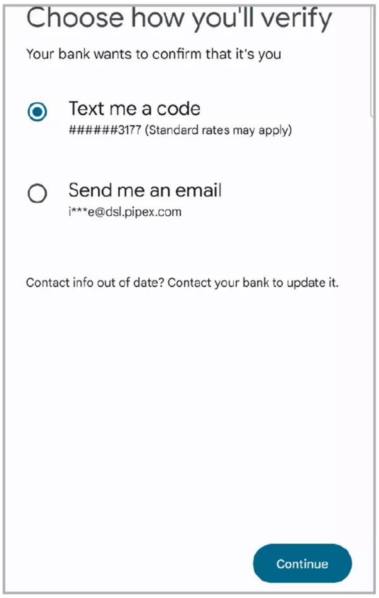
Issuer terms

Important information about changes to your credit card terms and conditions

We need to make some changes to your credit card terms and conditions with us ('your agreement') to cover new technology for registering a credit card with an e-wallet, or on a mobile phone, tablet computer, smartwatch or similar device (referred to as a 'device') to make payments.

This document explains the changes we're making which take effect when you successfully register your card on a device to be used for making payments. If you're not happy with any of these changes, you have the option to delete your card from your device and continue to use other means of payment already covered by your agreement. Please read these terms carefully and make sure you are happy with them before using your device to

4 Accept the terms and conditions. If you don't already have a screen lock set up, you need to do this now for an additional level of protection. It's a good idea to set the screen lock delay to zero. In some cases, small purchases can be made even when the phone is locked.



Choose how you'll verify

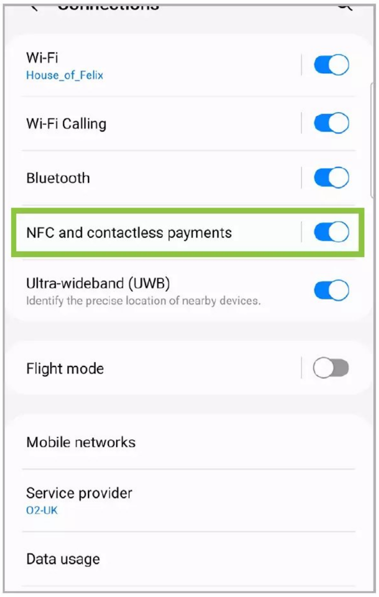
Your bank wants to confirm that it's you

● Text me a code
######3177 (Standard rates may apply)

○ Send me an email
i***e@dsl.pipex.com

Contact info out of date? Contact your bank to update it.

5 The next step is to verify your card with your bank. In some cases, you need to make a phone call. The number should automatically be entered into your phone dialler. Alternatively, choose a text message or an email, if these methods of verification are available.



Wi-Fi: On
House_of_Felix

Wi-Fi Calling: On

Bluetooth: On

NFC and contactless payments: On

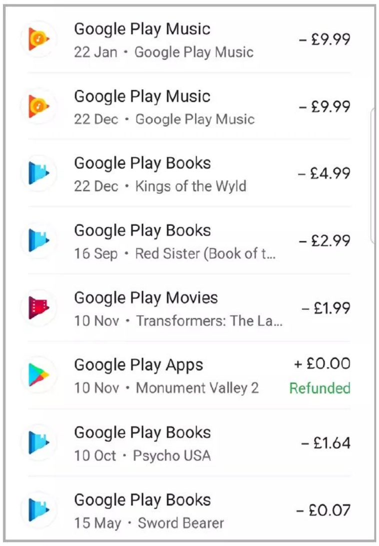
Ultra-wideband (UWB): On
Identify the precise location of nearby devices.

Flight mode: Off

6 If. you don't already have NFC and contactless payments switched on, open the Settings app, tap Connections and tap the switch next to the 'NFC and contactless payments' option. You're now ready to pay for goods and services using Google Pay on your phone.

Security and Advantages of Google Pay

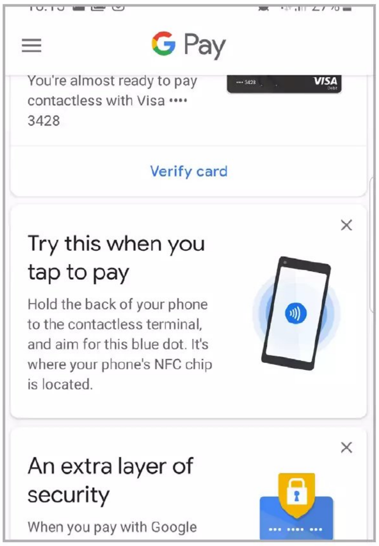
Google Pay is not only secure, it also makes shopping easier, whatever it is you're buying.



Google Play Music	22 Jan • Google Play Music	– £9.99
Google Play Music	22 Dec • Google Play Music	– £9.99
Google Play Books	22 Dec • Kings of the Wyld	– £4.99
Google Play Books	16 Sep • Red Sister (Book of t...	– £2.99
Google Play Movies	10 Nov • Transformers: The La...	– £1.99
Google Play Apps	10 Nov • Monument Valley 2	+ £0.00 Refunded
Google Play Books	10 Oct • Psycho USA	– £1.64
Google Play Books	15 May • Sword Bearer	– £0.07

Purchase Tracking

> As soon as you make a purchase, you'll see a payment confirmation that shows you exactly where a given transaction happened, along with the merchant's name and number. This makes it very easy to catch any suspicious activity early.



You're almost ready to pay contactless with Visa •••• 3428

Try this when you tap to pay

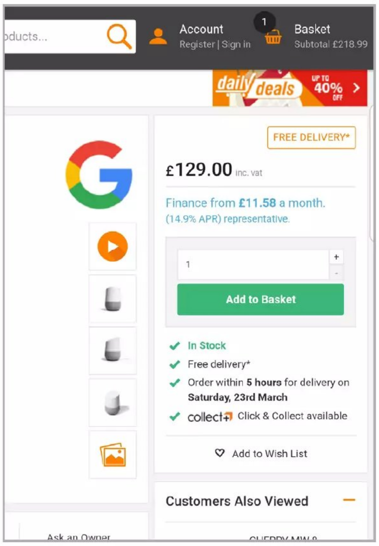
Hold the back of your phone to the contactless terminal, and aim for this blue dot. It's where your phone's NFC chip is located.

An extra layer of security

When you pay with Google

Tokenisation

> When you use your phone to pay in stores, Google Pay doesn't send your actual credit or debit card number with your payment. Instead, it uses a virtual account number to represent your account info – so your card details stay safe and secure.



£129.00 inc. vat

Finance from £11.58 a month. (14.9% APR) representative.

✓ In Stock
✓ Free delivery*
✓ Order within **5 hours** for delivery on **Saturday, 23rd March**
✓ collect+ Click & Collect available

Simple App Checkouts

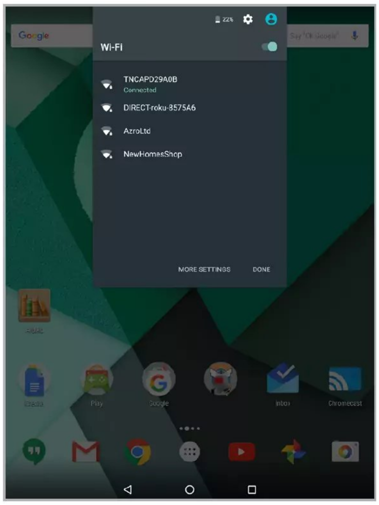
> Google Pay makes it easy to check out in apps and online. There is no need to enter your card details every time you buy something. When you're shopping in your favourite app, just choose Google Pay (if available) at checkout and save yourself some time.

Navigate with Google Maps

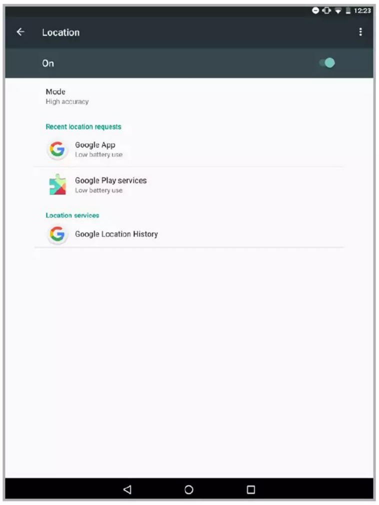
Google Maps is a fantastic tool but it can often be overlooked by Android users in favour of the seemingly more exciting features their device offers. Maps is much more than just a way to find out where you are; it can help you find hotels and restaurants in the local area, show you a list of local plumbers, or act as a satellite navigation tool.

Set Up Google Maps

Before you can use Google Maps on your Android device device, you need to ensure a few other services are activated. These may vary, depending on where you are trying to use the app. Here's how to go about it.



1 Because Google Maps uses Live data you will almost always need to be connected to the Internet to use it to its full extent. So the first thing you need to do is connect to a Wi-Fi network or, if you are out of range of a Wi-Fi network, connect to a mobile data network such as 3G or 4G.



Location

On

Mode
High accuracy

Recent location requests

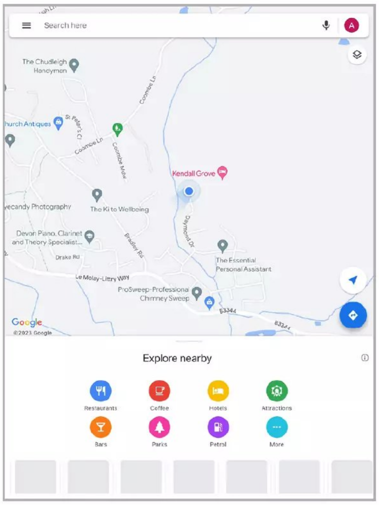
Google App
Low battery use

Google Play services
Low battery use

Location services

Google Location History

2 To take full advantage of all of the features of Google Maps, you will also need to ensure that Location Services are enabled and that the GPS feature of your device is on. You can use maps without these features turned on, but the information shown will be much more basic.



3 Now that you have a connection and location tracking is on, you can go ahead and open Google Maps. Give the app a few seconds and it will pinpoint your location and zoom in to show it on screen. You are now ready to start using Maps to find places and navigate your way to them.

Saving Maps Offline

If you're going where the Internet is slow, mobile data is expensive, or you can't get online; you can save an area from Google Maps to your phone or tablet and use it when you're offline.

On your Android device, open the Google Maps app and make sure you're both connected to the Internet and signed in to your Google account. Search for a place, such as San Francisco, at the bottom: tap the name or address of that place and then tap Download. If you searched for a place like a restaurant, tap the More button and then tap Download offline map > Download.

The Map Screen

You can view your maps as either simple line drawings or as a satellite view showing much more detail. The simple version is often easier to use when navigating, but the satellite view shows more detailed information.

1 Maps Menu

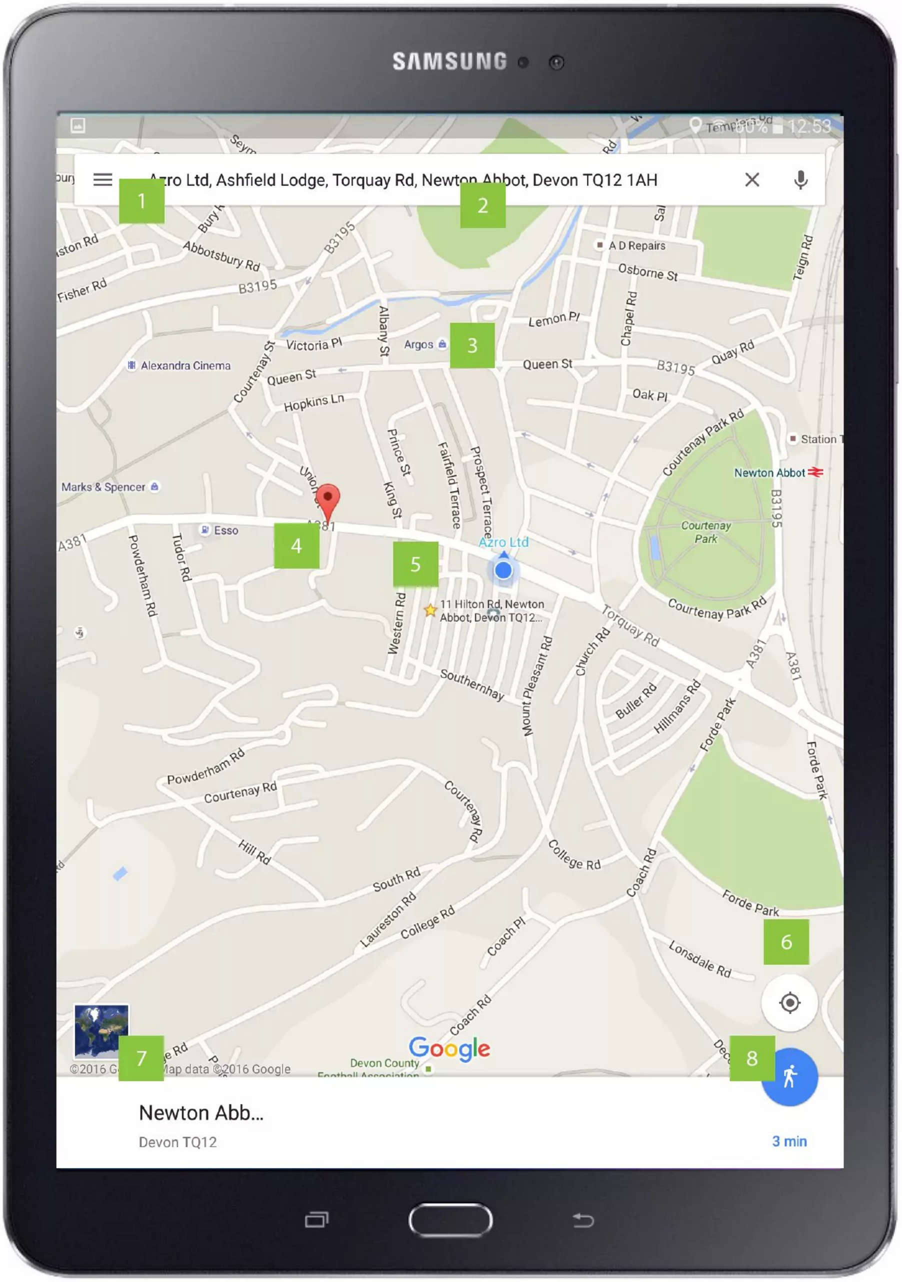
Tap this to open the main menu in Google Maps. Within the menu you will find links to Your Places which shows previous searches etc., maps which have been saved for offline viewing (more on that later) and to enable the different map layers.

2 Search Maps

You can search for both locations, towns, cities, landmarks etc., and specific businesses or types of business. When you tap the search bar, a list of previous searches, routes and locations will open, allowing you to pick one again.

3 Map Icons

As you scroll around the map, you will see various icons marking places of interest, restaurants, train stations and many other things. You can tap any of the icons to see more information in the panel at the bottom of the map screen; tap on or drag the panel up.



Azro Ltd, Ashfield Lodge, Torquay Rd, Newton Abbot, Devon TQ12 1AH

Newton Abb...
Devon TQ12

3 min

SAMSUNG
12:53
1
2
3
4
5
6
7
8
Abbotsbury Rd
Fisher Rd
B3195
Victoria Pl
Albany St
Argos
Lemon Pl
Osborne St
A D Repairs
Chapel Rd
Teign Rd
Queen St
Quay Rd
Oak Pl
Alexandra Cinema
Hopkins Ln
Courtenay Park Rd
Station
Newton Abbot
Marks & Spencer
Prince St
Fairfield Terrace
Prospect Terrace
King St
Esso
A381
Azro Ltd
Courtenay Park
Powderham Rd
Tudor Rd
Western Rd
11 Hilton Rd, Newton Abbot, Devon TQ12...
Torquay Rd
Southernhay
Mount Pleasant Rd
Church Rd
Buller Rd
Hillmans Rd
Forde Park
Courtenay Rd
Hill Rd
South Rd
Laureston Rd
College Rd
Coach Pl
Coach Rd
Lonsdale Rd
Devon County
Google
Map data ©2016 Google

4 Saved Location

You can save important locations in the Maps app, your home and work addresses for example, and these will be added to My Places. To do this, drop a pin (tap and hold on map) and then click the Save option. You can add the location as a Favourite, Starred Place or a location you Want To Go.

5 Current Location

You can use the Maps app without having Location services switched on but if you use it with location enabled, you will see a small blue dot at your current location. If the GPS signal is good enough, this may even show the direction you (or your device) is facing.

6 Find North

This is the compass showing you at all times which direction you are facing. You can tap the Compass button at any time to find North. The map view will rotate until it is aligned with North and you can then match it up to the compass.

7 Info Panel

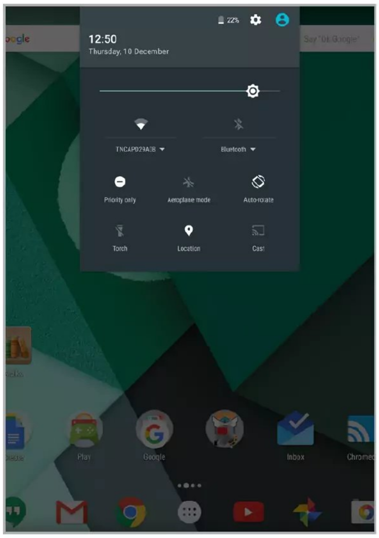
When the map is focused over a town or city, the information panel will show data about that location: bars, restaurants, etc. Tap or drag the panel up to view the info. If you tap an icon or set a pin in the map by tapping a location, the info panel will show details about that location.

8 Find Route

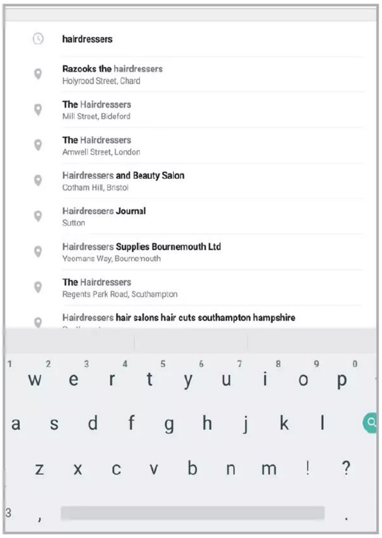
This is the button you tap to start planning a route and using the navigation tool. If you have a pin in the map, tapping this will find a route between your current location and the pin. If you tap it without a pin a new screen will open where you can enter start and finish points.

Local Search

You can use Google Maps to find people, places and businesses in your local area. It's great for finding places to visit.


12:50
Thursday, 10 December
TNCAP029A3B
Bluetooth
Priority only
Aeroplane mode
Auto-rotate
Torch
Location
Cast
Play
Google
Inbox

1 Turn on Location, connect to Wi-Fi and open Google Maps. The local search feature also works using just your 3G or 4G connection which is easier on your battery but isn't quite as accurate.



hairdressers

Razooks the hairdressers
Holyrood Street, Chard

The Hairdressers
Mill Street, Bideford

The Hairdressers
Amwell Street, London

Hairdressers **and Beauty Salon**
Cotham Hill, Bristol

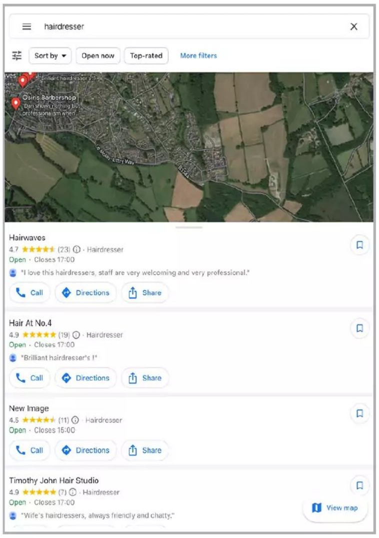
Hairdressers **Journal**
Sutton

Hairdressers **Supplies Bournemouth Ltd**
Yeomans Way, Bournemouth

The Hairdressers
Regents Park Road, Southampton

Hairdressers **hair salons hair cuts southampton hampshire**

2 From the main map screen tap in the search field and type what you want to search for. You can search for specific businesses or just type something like "hairdressers" to see all in that area.


hairdresser
Sort by
Open now
Top-rated
More filters
Osiris Barbershop
B3744

Hairwaves
4.7 ★★★★★ (23) · Hairdresser
Open · Closes 17:00
"I love this hairdressers, staff are very welcoming and very professional."
Call Directions Share

Hair At No.4
4.9 ★★★★★ (19) · Hairdresser
Open · Closes 17:00
"Brilliant hairdresser's !"
Call Directions Share

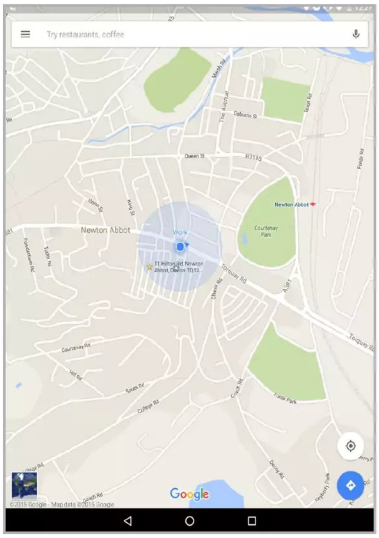
New Image
4.5 ★★★★★ (11) · Hairdresser
Open · Closes 15:00
Call Directions Share

Timothy John Hair Studio
4.9 ★★★★★ (7) · Hairdresser
Open · Closes 17:00
"Wife's hairdressers, always friendly and chatty."
View map

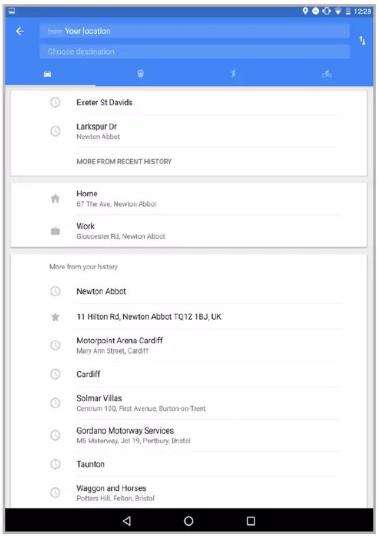
3 Results relevant to your search will now be shown on the map. The bottom half of the screen contains a list of those locations, along with a button to quickly load directions to each one.

Navigating with Maps

Let Google find your current location, enter a destination and then follow the directions shown on the screen.


Try restaurants, coffee
Newton Abbot
Work
11 Hilton Rd Newton Abbot, Devon TQ12
Google

1 Ensure that GPS, Wi-Fi and optionally, a data connection are enabled and open Google Maps. Let the GPS pinpoint your current location. If you are indoors the GPS may struggle to find a satellite, so give the app a bit of time.



from Your location
Choose destination

Exeter St Davids

Larkspur Dr
Newton Abbot

MORE FROM RECENT HISTORY

Home
67 The Ave, Newton Abbot

Work
Gloucester Rd, Newton Abbot

More from your history

Newton Abbot

11 Hilton Rd, Newton Abbot TQ12 1BJ, UK

Motorpoint Arena Cardiff
Mary Ann Street, Cardiff

Cardiff

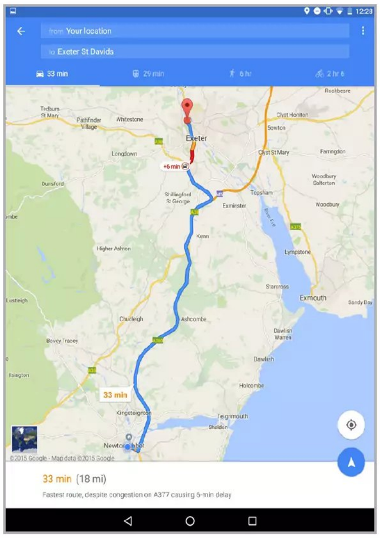
Solmar Villas
Centrum 100, First Avenue, Burton-on-Trent

Gordano Motorway Services
M5 Motorway, Jct 19, Portbury, Bristol

Taunton

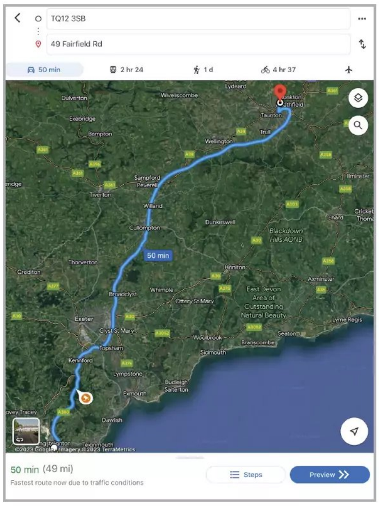
Waggon and Horses
Potters Hill, Felton, Bristol

2 Press the blue Directions button, that looks like a road sign, located on the bottom menu. Type in your destination and starting point, if not your current location and then touch the Get Directions button. Enable Navigation if asked, first use only.


from Your location
Exeter St Davids
33 min
25 min
6 hr
2 hr 6
Exeter
Exmouth
33 min

33 min (18 mi)
Fastest route, despite congestion on A377 causing 5-min delay

3 If you have searched for anything in maps before now, you will see a list of your location history on this screen. Tap any to select a previous destination. Once the route is plotted tap the Navigation button at the bottom of the screen.



TQ12 3SB

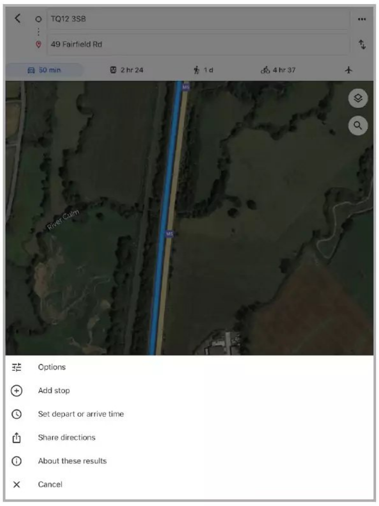
49 Fairfield Rd

50 min (49 mi)

Fastest route now due to traffic conditions

50 min
2 hr 24
1 d
4 hr 37
50 min
Steps
Preview

4 The map view will now change and you can now use your device in exactly the same way as you would a standard Satellite Navigation system. Clip it somewhere you can see it and start driving. You can buy car holders for almost any sized Android device fairly cheaply.

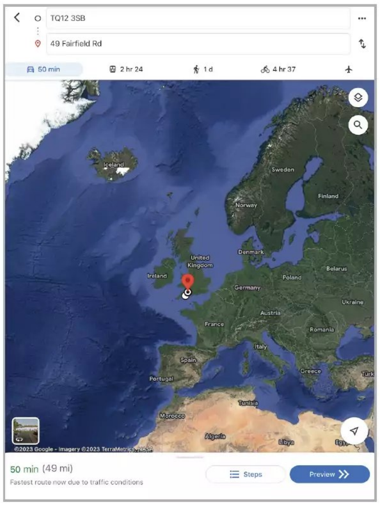


TQ12 3SB

49 Fairfield Rd

50 min
2 hr 24
1 d
4 hr 37
Options
Add stop
Set depart or arrive time
Share directions
About these results
Cancel

5 While in Navigation mode press the Menu button to see options to mute the voice directions, check the overall route, change map layers (see traffic or a satellite view, for example) or exit Navigation. You can tap the Mic button to record the audio directions if you wish.



TQ12 3SB

49 Fairfield Rd

50 min (49 mi)

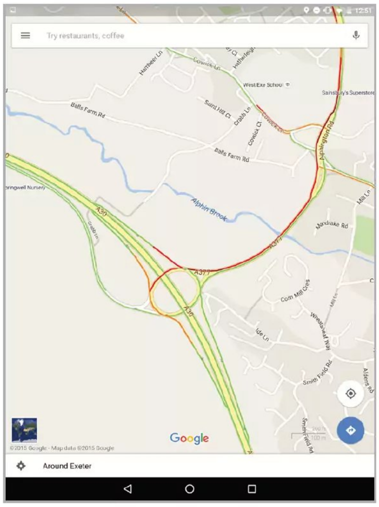
Fastest route now due to traffic conditions

50 min
2 hr 24
1 d
4 hr 37
Iceland
Norway
Sweden
Finland
United Kingdom
Ireland
Denmark
Germany
Poland
Belarus
Ukraine
France
Austria
Romania
Italy
Spain
Portugal
Greece
Morocco
Tunisia
Algeria
Libya
Steps
Preview

6 At any time whilst navigating you can zoom and slide the map around to suit your needs. To quickly centre the map on your current location again, tap the Recentre button at the bottom. To view an alternative route tap the split arrow button at the bottom of the map screen.

Map Layers

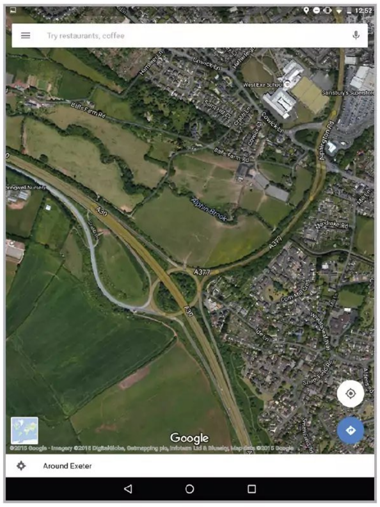
There are several different ways that you can view the map in Google Maps, from basic block colours to full satellite image, to the on-the-ground street view. To see the available different layers tap the Menu button in the app.



Try restaurants, coffee
Google
Around Exeter

Traffic

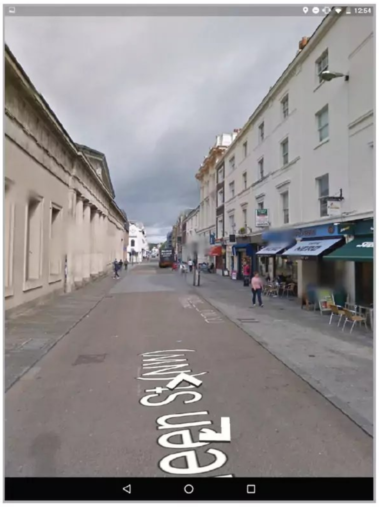
There are several different ways that you can view the map in Google Maps, from basic block colours to full satellite image. To see the different layers available tap the main Menu button in the app (top left of the screen). Some other apps you can install on your device will add available layers, including Google Earth but there are also some standard layers.



Try restaurants, coffee
Google
Around Exeter

Satellite

This changes the map view from block colour to a full satellite image. You can zoom in to the satellite image as you can with the normal map and the level of detail captured is impressive. You can overlay any other layer onto the satellite view. If you are using a data connection to view Maps, bear in mind that viewing the satellite view will use more data and may cost more money.

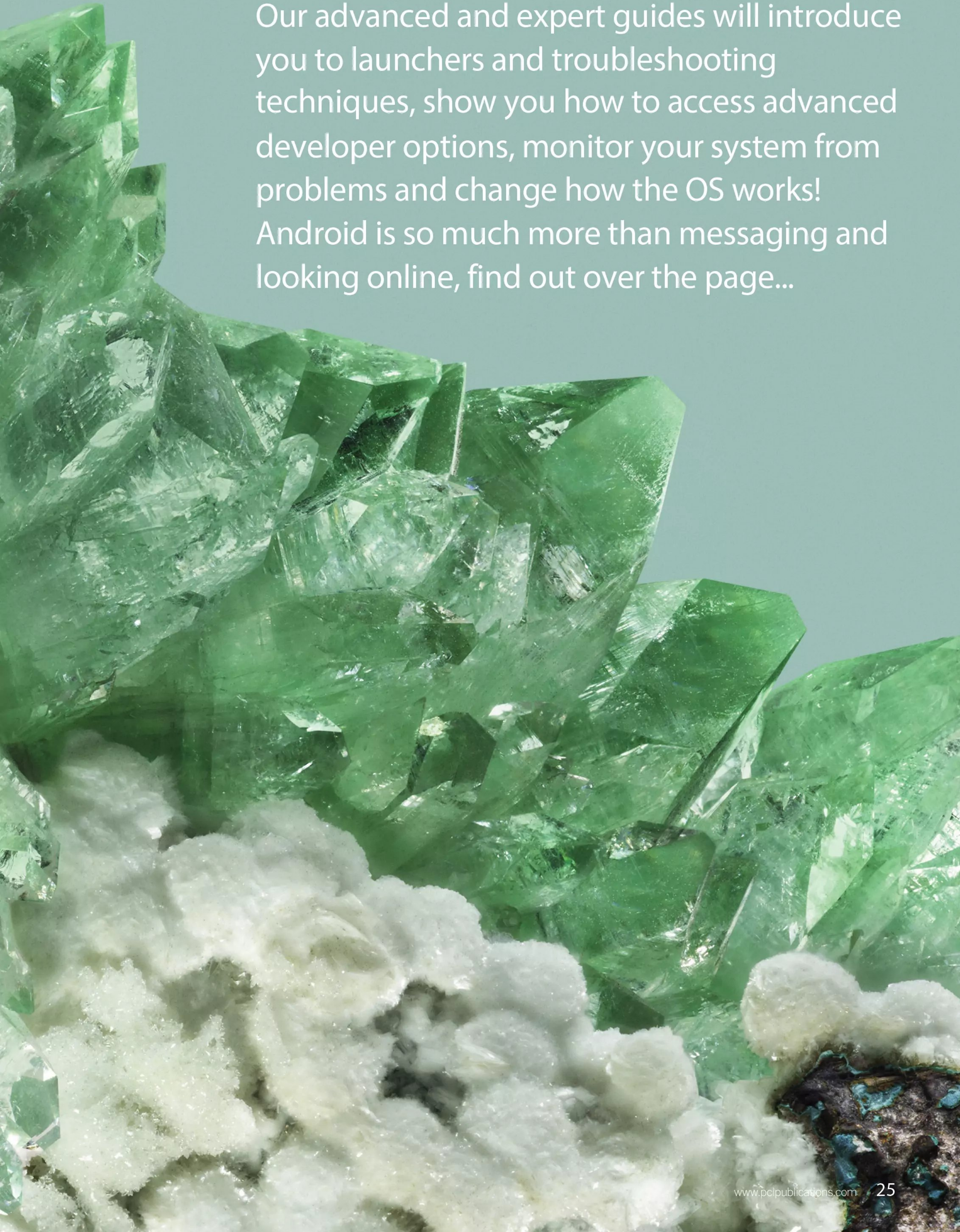


Street View

To see Street View on the Google Maps app, press and hold on the map to drop a pin. You can then pull up the info sheet to learn more information about that specific location, find directions, check out Street View and save or share the location by text or email. When in Street View simply tap the Back button on your device to return to the maps view.

Doing More With Android

Our advanced and expert guides will introduce you to launchers and troubleshooting techniques, show you how to access advanced developer options, monitor your system from problems and change how the OS works! Android is so much more than messaging and looking online, find out over the page...

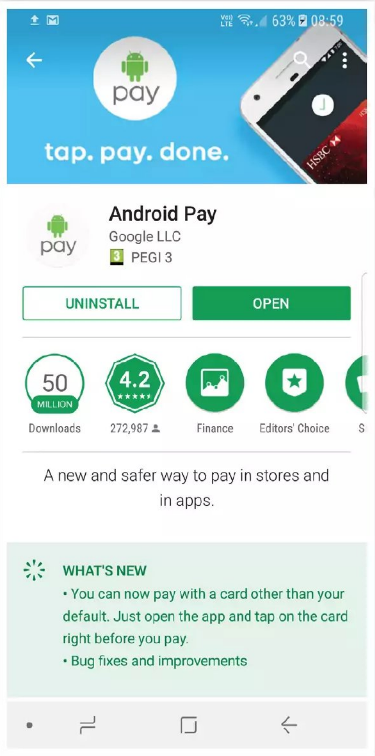


Using Android Pay

You already use your phone for just about everything, so why not use it to pay for stuff too? Android Pay lets you do just that. Just add your credit, debit, loyalty and gift cards to Android Pay and start shopping in stores, in apps and online, all using a secure and convenient system. Android Pay can be used at hundreds of thousands of shops around the world, wherever contactless payments are accepted.

Setting Up Android Pay

Android Pay is a secure system but as with anything to do with money and payments, it is important to make sure that you set everything up properly.

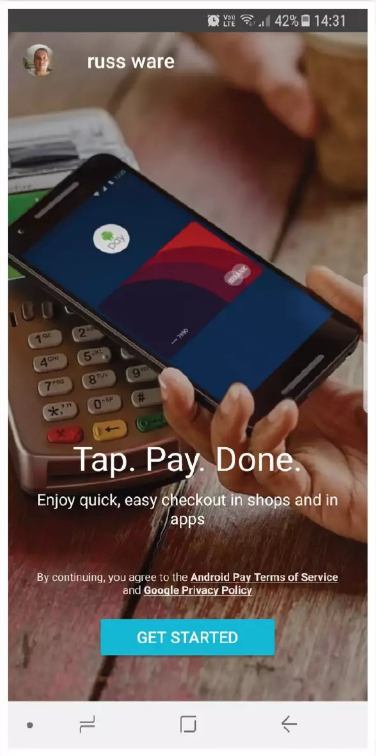


A new and safer way to pay in stores and in apps.

WHAT'S NEW

- You can now pay with a card other than your default. Just open the app and tap on the card right before you pay.
- Bug fixes and improvements

1 You will need to make sure that you have your credit or debit cards close at hand and have all the details available: account numbers, sort codes, security numbers, etc. You will also need to download the Android Pay app from Google Play, if you don't already have it on your phone. Setting up Android Pay can take a little time, mainly due to the security questions and settings.

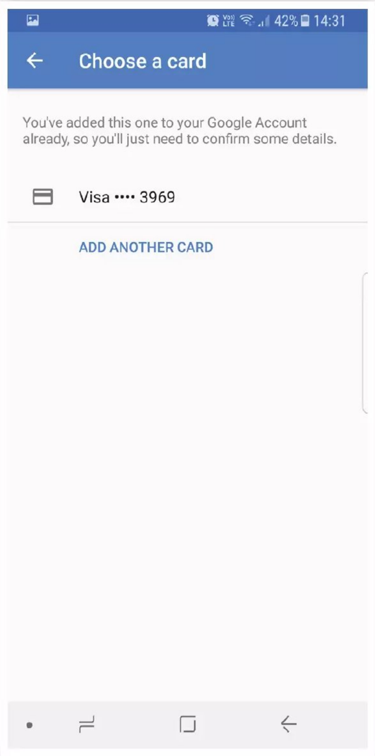


Tap. Pay. Done.

Enjoy quick, easy checkout in shops and in apps

By continuing, you agree to the Android Pay Terms of Service and Google Privacy Policy

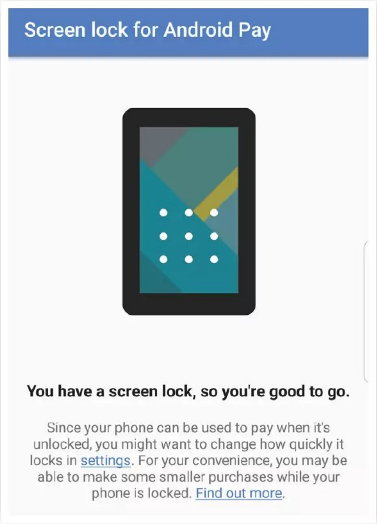
2 Once installed, tap the app icon and then Get Started and choose the Google account to use with the app (if you have more than one). If you already have a credit or debit card registered to your Google account it will be displayed next, along with the option to add a different card. If you don't already have a credit card attached to your Google account, you can add one later.



You've added this one to your Google Account already, so you'll just need to confirm some details.

Visa •••• 3969

3 Whichever option you choose, you will have to add information, including CVC codes and other security information: we can't show a screenshot of this process, due to a security feature that prohibits the information being captured. Be careful to add the exact information required. Complete the information requested and accept the terms.

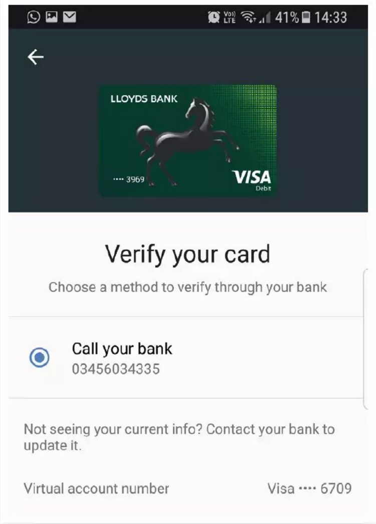


Screen lock for Android Pay

You have a screen lock, so you're good to go.

Since your phone can be used to pay when it's unlocked, you might want to change how quickly it locks in settings. For your convenience, you may be able to make some smaller purchases while your phone is locked. Find out more.

4 If you don't already have a screen lock set up on your phone, you will need to set one up now, for an additional level of security on top of the app security. It is a good idea to set the screen lock delay to zero. In some cases, small purchases can be made even when the phone is locked.



Verify your card

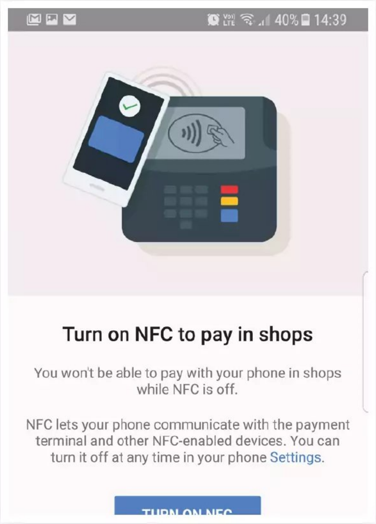
Choose a method to verify through your bank

● Call your bank
03456034335

Not seeing your current info? Contact your bank to update it.

Virtual account number Visa •••• 6709

5 The next step is to verify your phone with your bank. In most cases, you will need to call a number specifically for Android Pay verifications but this can vary between different banks and card issuers. The number should automatically be entered into your phone dialler. Call and follow the instructions.



Turn on NFC to pay in shops

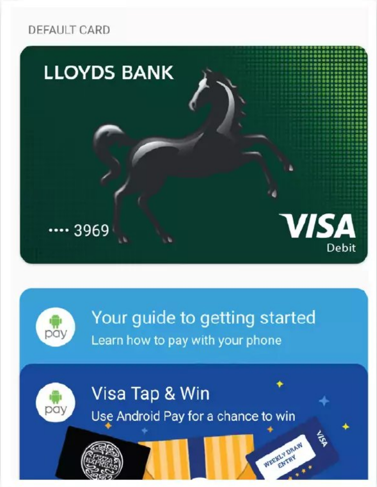
You won't be able to pay with your phone in shops while NFC is off.

NFC lets your phone communicate with the payment terminal and other NFC-enabled devices. You can turn it off at any time in your phone Settings.

6 Once verified, the last thing you need to do to start using contactless Android Pay in stores that offer the service, is to enable NFC. NFC, or Near Field Communication, allows your phone to communicate with the contactless terminals. Either turn it on here or turn it on in your main settings menu.

Security and Advantages of Android Pay

Android Pay is not only secure, it also makes shopping easier, whether you are buying a loaf of bread at your local supermarket or the latest fashions online.

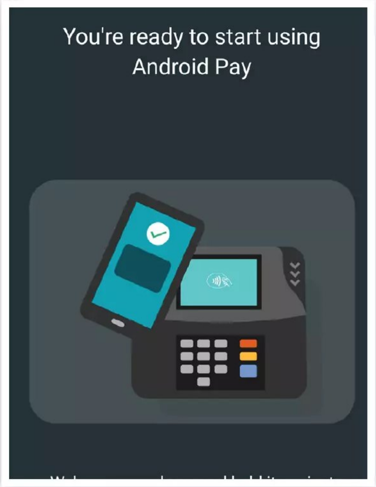


Your guide to getting started
Learn how to pay with your phone

Visa Tap & Win
Use Android Pay for a chance to win

Purchase Tracking

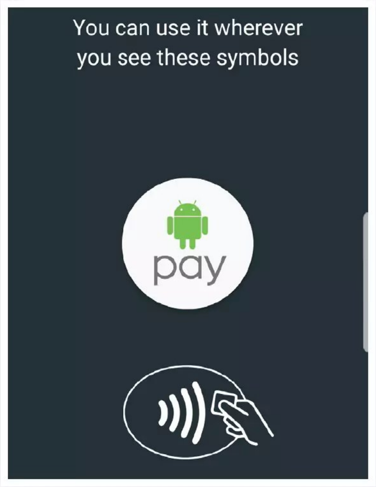
Once you've made a purchase, you'll see a payment confirmation that shows you exactly where a given transaction happened, along with the merchant's name and number, making it easy to spot any suspicious activity.



You're ready to start using Android Pay

Tokenisation

When you use your phone to pay in stores, Android Pay doesn't send your actual credit or debit card number with your payment. Instead it uses a virtual account number to represent your account info, so your card details stay safe and secure.



You can use it wherever you see these symbols

Simple App Checkouts

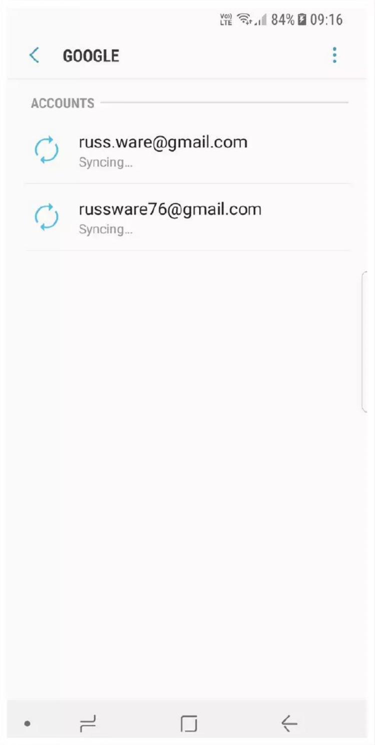
Android Pay makes it easy to check out in apps and online. There is no need to enter your card details every time you buy something. When you're shopping in your favourite app just choose Android Pay (if available) at checkout and save yourself some time.

Erase and Reset an Android Device

You can remove data from your Android phone or tablet by resetting it to factory settings. Resetting this way is also called 'formatting' or a 'hard reset'. A factory reset is useful if you're trying to fix some persistent issues or are planning to sell or give away an old device and want to make sure that everything of yours has been removed.

Preparing to Reset

Before you reset and wipe your device you need to make sure that you understand and are prepared for what you need to get back up and running afterwards.



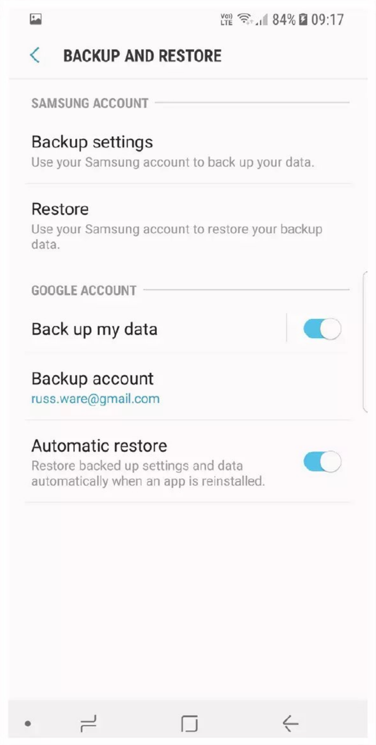
GOOGLE

ACCOUNTS

russ.ware@gmail.com
Syncing...

russware76@gmail.com
Syncing...

1 To show that it's you doing the reset, you'll need to enter security information. If you can't enter the information, you won't be able to restore your data to the device. Therefore, you will need to know the Google account information that is currently being used on the device.



BACKUP AND RESTORE

SAMSUNG ACCOUNT

Backup settings
Use your Samsung account to back up your data.

Restore
Use your Samsung account to restore your backup data.

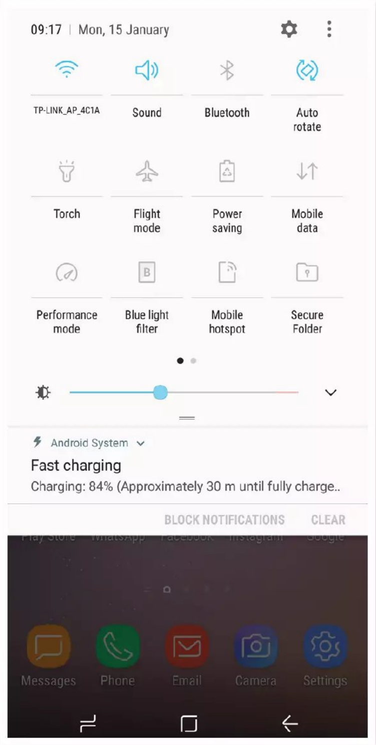
GOOGLE ACCOUNT

Back up my data

Backup account
russ.ware@gmail.com

Automatic restore
Restore backed up settings and data automatically when an app is reinstalled.

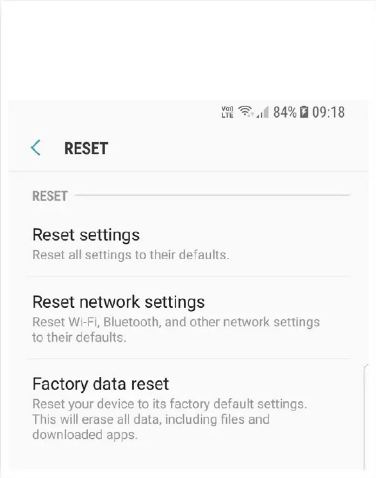
2 A factory data reset will erase your data from the device. While data stored in your Google account can be restored, all apps and their data will be uninstalled. Open your device's Settings app, tap System > Backup. Turn on Back up to Google Drive.


09:17 Mon, 15 January
TP-LINK_AP_4C1A
Sound
Bluetooth
Auto rotate
Torch
Flight mode
Power saving
Mobile data
Performance mode
Blue light filter
Mobile hotspot
Secure Folder
BLOCK NOTIFICATIONS
CLEAR
Messages
Phone
Email
Camera
Settings

Android System
Fast charging
Charging: 84% (Approximately 30 m until fully charge..

3 A full factory reset can take a long time (up to an hour), so plug your device into a power source and keep it plugged in until the reset completes; ensure you connect your device to Wi-Fi or mobile network. When the reset completes, you'll need to be connected to sign in to your Google account.

Factory Reset Your Device

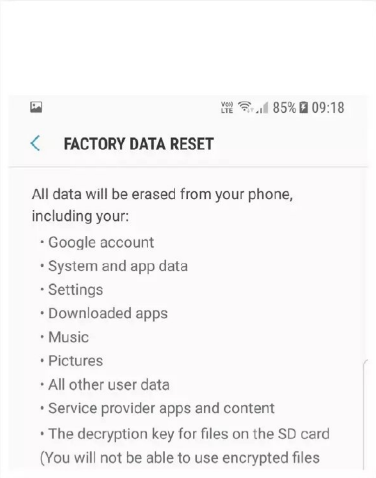


Reset settings
Reset all settings to their defaults.

Reset network settings
Reset Wi-Fi, Bluetooth, and other network settings to their defaults.

Factory data reset
Reset your device to its factory default settings. This will erase all data, including files and downloaded apps.

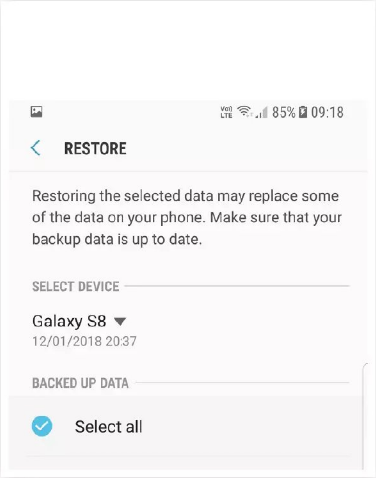
1 Open your device's Settings app and tap System > Reset. If you have one set up, you may need to enter your PIN, pattern or password at this point, to tell Android that it is you trying to reset the device. On some devices, factory reset may be found under the Backup & reset heading.



All data will be erased from your phone, including your:
- Google account
- System and app data
- Settings
- Downloaded apps
- Music
- Pictures
- All other user data
- Service provider apps and content
- The decryption key for files on the SD card

(You will not be able to use encrypted files

2 Tap Factory data reset > Reset phone or Reset tablet. In some cases, this is where you will need to enter your PIN, pattern or password. To erase all data from your device's internal storage, tap Erase everything. When your device has finished erasing, pick the option to restart.



Restoring the selected data may replace some of the data on your phone. Make sure that your backup data is up to date.

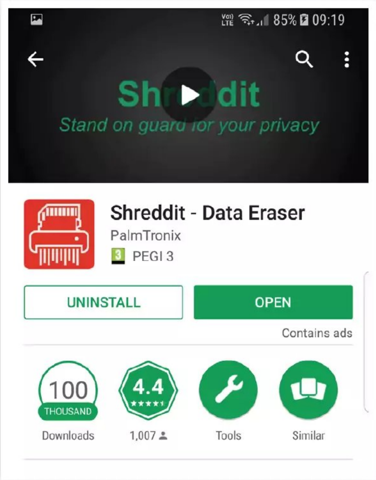
SELECT DEVICE
Galaxy S8
12/01/2018 20:37

BACKED UP DATA
☑ Select all

3 If you are resetting the device to sell or give away, you are finished. If not, you need to set up and restore your backed-up data as with a new device. If you can't open your device's Settings app, you can try factory resetting your Android device by holding its power and volume buttons.

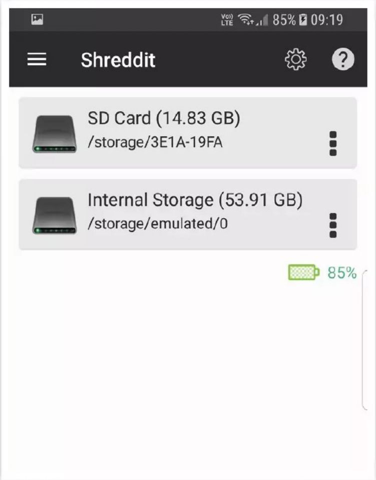
Erasing Specific Data

If you don't want to factory reset your device but do want to permanently remove sensitive data and information from the device, Shreddit – Data Eraser is a useful tool to have installed.



Shreddit - Data Eraser
PalmTronix
PEGI 3

1 SHREDDIT is a data eraser which securely deletes files leaving them irrecoverable. This tool erases your data completely and protects if it falls into malicious hands. It deploys quick shredding algorithms that shred huge data volumes PERMANENTLY in a matter of seconds.

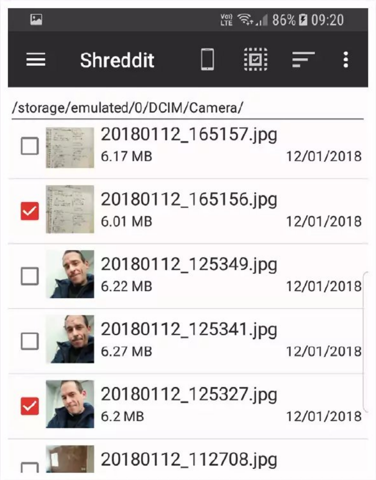


SD Card (14.83 GB)
/storage/3E1A-19FA

Internal Storage (53.91 GB)
/storage/emulated/0

85%

2 When launched first time the shredder will ask for permission to access photos, media and files on your device. The first screen here mounts your internal and external storage with their mount points path and their total capacity or size. Internal Storage is where you will find app data.



/storage/emulated/0/DCIM/Camera/

☐ 20180112_165157.jpg 6.17 MB 12/01/2018
☑ 20180112_165156.jpg 6.01 MB 12/01/2018
☐ 20180112_125349.jpg 6.22 MB 12/01/2018
☐ 20180112_125341.jpg 6.27 MB 12/01/2018
☑ 20180112_125327.jpg 6.2 MB 12/01/2018
☐ 20180112_112708.jpg

3 Open the relevant folder (DCIM for camera images, etc.) and select the items you want to erase. When you have selected them, tap the red Shred button at the bottom of the screen. Shredding may take a while, so be patient and wait for the process to finish before closing the app.

5 Things That Can Affect Your Phone Signal

There are several things that can affect how good your cell phone signal is, things that you might not automatically consider when a call drops or when your phone shows the dreaded no bars. If you know and understand the types of things that can affect signal strength, you will be in a better position to make sure your calls all get through.

1 Terrain

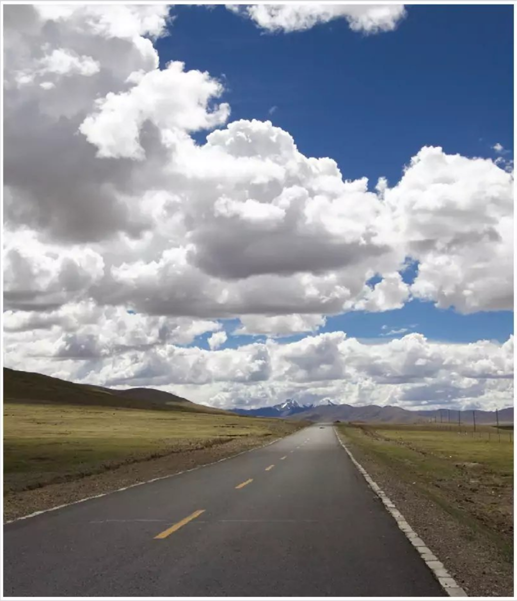
Your mobile phone communicates using simple radio waves and these travel in straight lines from your phone to the nearest visible cell tower. Anything that gets in the way can cause loss of signal strength or even signal failure. For example, if your nearest cell tower was a mile away, but hidden behind a hill, and the next visible tower was five or ten miles away, your phone would be forced to connect to that one, rather than the much closer tower. In this case, distance would also begin to have an effect on signal strength. If you lived in a valley and all of the cell towers were outside the valley, you would effectively be in a Dead Zone.

You might think that living in a city would be like being in an unnatural valley all the time but there are usually smaller radio towers or antennas placed all over cities, so the signal never has to travel far. Radio signals can also bounce off buildings and round corners, so you might not even need line-of-sight with a tower to get a signal. Again, in this instance, signal strength would be lost.

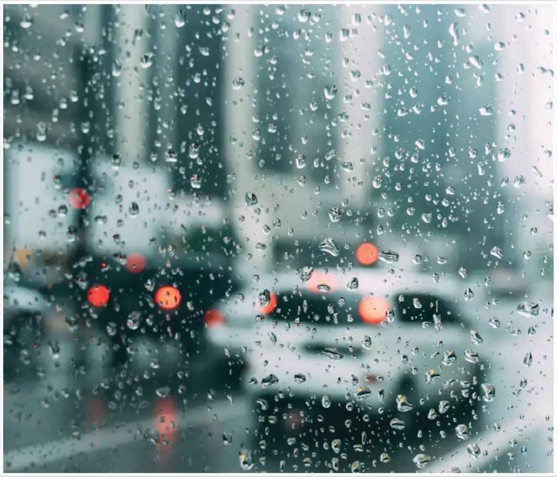
2 Distance

The distance they need to travel is always a factor with any radio waves and your phone signal is no different. The atmosphere is full of particles and even in perfect conditions, i.e. no dust, rain or snow, the furthest distance to the nearest tower will need to be less than 25 miles if you expect any sort of signal. Theoretically, a radio wave from a mobile phone could travel 45 miles but depending on the network carrier, components used and the receiving equipment, the realworld distance could be as low as 20 miles.

The more powerful the transmitter, the further the radio waves will travel but there is a limit to how powerful a smartphone radio can be. In a city, distance is rarely a problem but in the great outdoors, or even just in rural towns, this is probably going to be the biggest factor affecting the quality of your mobile signal.



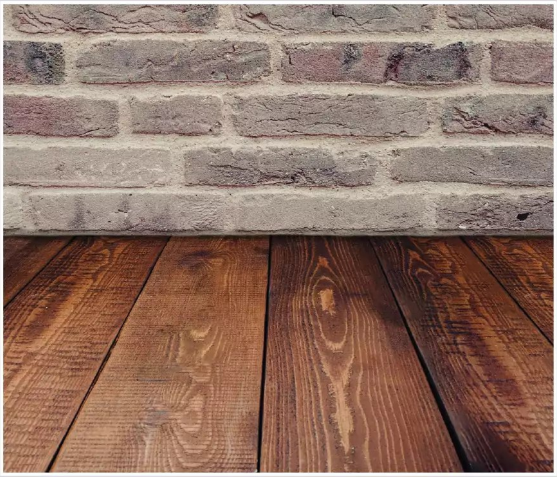
3 Weather



Following on from the effect of distance on your mobile signal, is the effect that weather can have. Just how much effect the weather has on your signal depends very much on the type of weather. For example, heavy cloud can cause problems due to complicated sounding things like changes in radio propagation and signal reflection. Heavy rain can really get in the way of radio waves and even light rain will have some effect, particularly if your device is using the high frequency ranges used by 4G.

In general, water in any form will reduce how far radio waves can travel and in particular the high frequency waves used by mobile phones. Water vapour will actually absorb energy from the radio waves, converting it into heat, removing its strength.

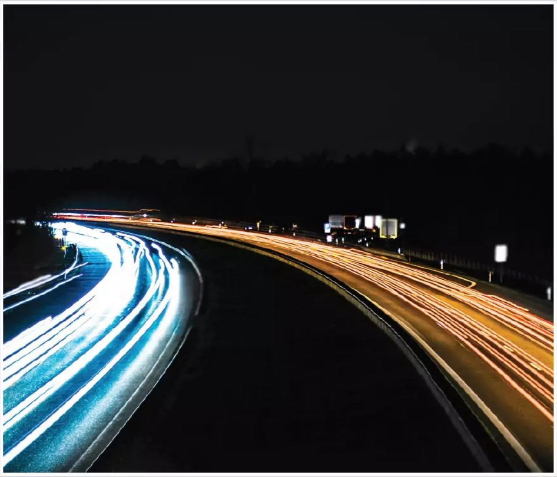
4 Building Materials



Being inside a building will, to at least some degree, effect how well the signal travels. Commonly used building materials like concrete, steel, brick and plaster are all great at blocking radio waves. Walls of mainly steel construction, or concrete walls with lots of steel reinforcing bars inside, will have the worst effect on signal. This is especially true in rooms such as basements, due to the lack of large windows.

If the lack of signal is just inside the building, i.e. you can get a good signal in the garden or on the balcony, it may be worth investing in a signal booster. This is a fairly simple device that receives the signal inside the building and passes it through a cable to an externally placed antenna. It can then be sent to the nearest mast; If you don't even get a good signal outside, a signal booster won't help.

5 Movement Speed



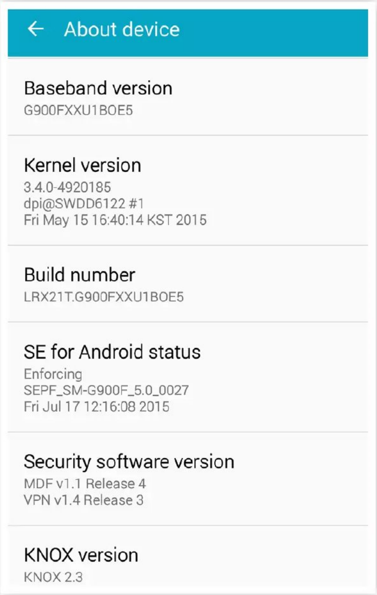
To make a call, your phone needs to be able to send and receive signals to a tower. This back and forth happens incredibly quickly, so if you are standing still or even moving slowly, there is no problem. However, as soon as you start to move at speed (in a train for example), the constant changes in position can begin to cause issues. Travel at over 60mph and you will probably notice a distinct drop in call quality and anything over 100mph will probably see calls being dropped completely or at the very least, filled with stuttering and interference. Of course, you also have the added problem of potentially moving behind something that obstructs the radio waves as you travel.

Using the Developer Options

Every Android smartphone and tablet contains a secret set of options - the Android Developer Options. As the name suggests, these are intended principally for developers of apps, used for debugging or simulating certain conditions. There are, however, several options within this menu which more adventurous Android users can utilise to good effect.

Enable Developer Options

If you choose to do so, before you can start to use the developer options, you will need to unlock and activate them in the settings.



About device

Baseband version
G900FXXU1BOE5

Kernel version
3.4.0-4920185
dpi@SWDD6122 #1
Fri May 15 16:40:14 KST 2015

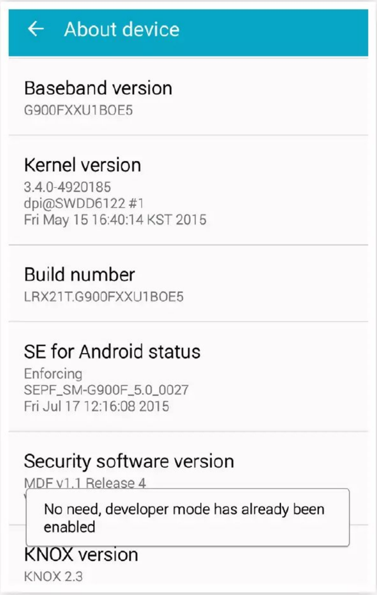
Build number
LRX21T.G900FXXU1BOE5

SE for Android status
Enforcing
SEPF_SM-G900F_5.0_0027
Fri Jul 17 12:16:08 2015

Security software version
MDF v1.1 Release 4
VPN v1.4 Release 3

KNOX version
KNOX 2.3

1 Open the main settings app and locate the About Device menu (usually found at the bottom of the settings list). This menu gives you access to lots of information about your phone or tablet. Scroll down until you see the Build Number section.



About device

Baseband version
G900FXXU1BOE5

Kernel version
3.4.0-4920185
dpi@SWDD6122 #1
Fri May 15 16:40:14 KST 2015

Build number
LRX21T.G900FXXU1BOE5

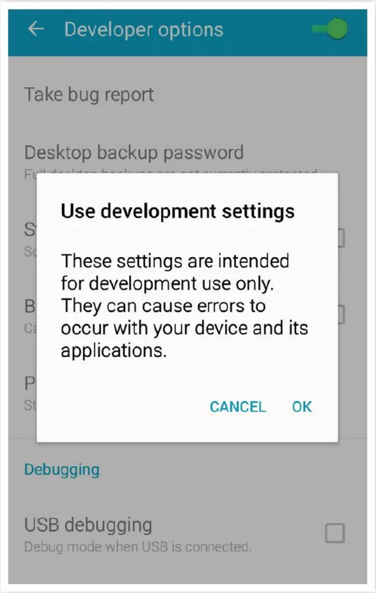
SE for Android status
Enforcing
SEPF_SM-G900F_5.0_0027
Fri Jul 17 12:16:08 2015

Security software version
MDF v1.1 Release 4

No need, developer mode has already been enabled

KNOX version
KNOX 2.3

2 Tap on the Build Number heading ten times quickly. As you do so, you will see a message appear counting down and then saying "You are now a developer". Continue to tap the build number heading and the message changes to "You are already a developer".



Developer options

Take bug report

Desktop backup password

Use development settings

These settings are intended for development use only. They can cause errors to occur with your device and its applications.

CANCEL OK

Debugging

USB debugging ☐
Debug mode when USB is connected.

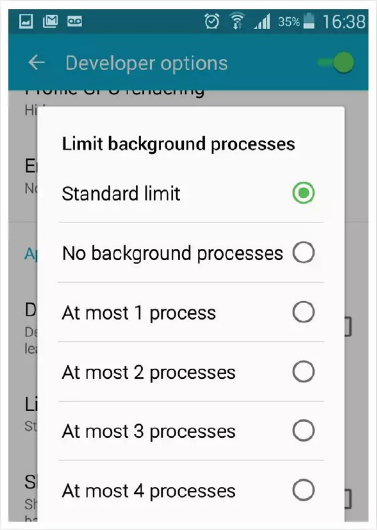
3 Tap Back and look for the new heading Developer Options in the main settings. Once you open the developer options menu, you will need to use the slider at the top of the screen to enable access to them and allow them to be modified.

What is ADB?

Android Debug Bridge (adb) is a versatile command-line tool that lets you communicate with a device (an emulator or a connected Android device). The adb command facilitates a variety of device actions, such as installing and debugging apps.

Useful Developer Options

Not all of the developer options are worth changing, or indeed should be changed unless you really know what you are doing.

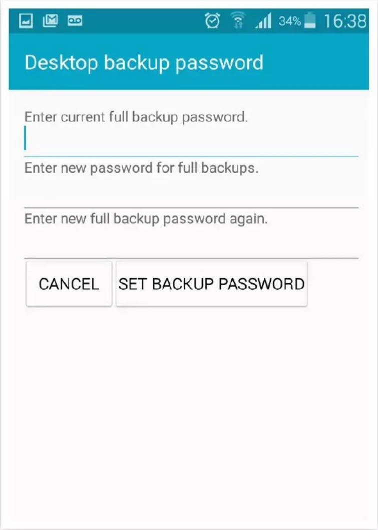


Limit background processes

- Standard limit ●
- No background processes ○
- At most 1 process ○
- At most 2 processes ○
- At most 3 processes ○
- At most 4 processes ○

1 - Limit Background Processes

Scroll right down to the bottom of the list and you will see Limit Background Processes. This option lets you set how many processes can run in the background on your device at any one time. Be aware that too small a limit might be counterproductive.



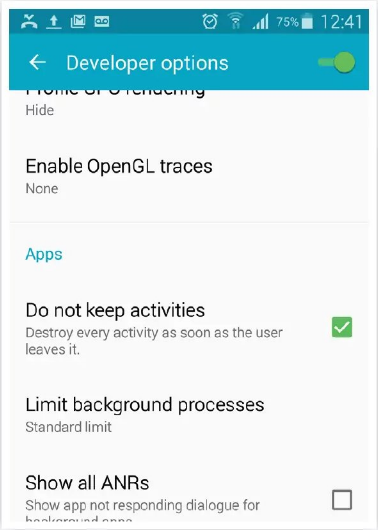
Enter current full backup password.

Enter new password for full backups.

Enter new full backup password again.

2 - Desktop Backup Password

The Android Developer Options allow you to backup and restore to your PC things such as apps and their associated data. This option requires a password for such backups. You will need to ensure that your device can connect to your computer successfully.



Enable OpenGL traces
None

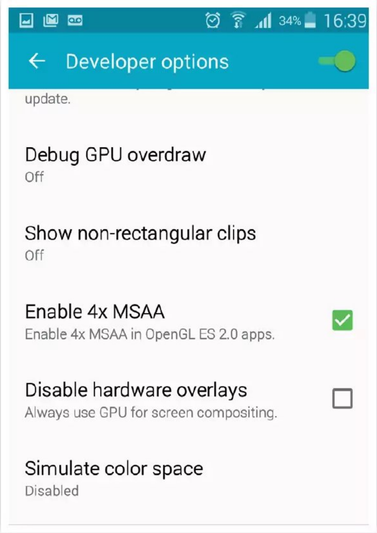
Do not keep activities ☑
Destroy every activity as soon as the user leaves it.

Limit background processes
Standard limit

Show all ANRs ☐
Show app not responding dialogue for

3 - Don't Keep Activities open

Although you need to be a bit careful about using this setting, it can be useful if your phone struggles after heavy use. This option force-closes every application as soon as you leave its main view. Use either this or the Limit Processes option, not both.



Debug GPU overdraw
Off

Show non-rectangular clips
Off

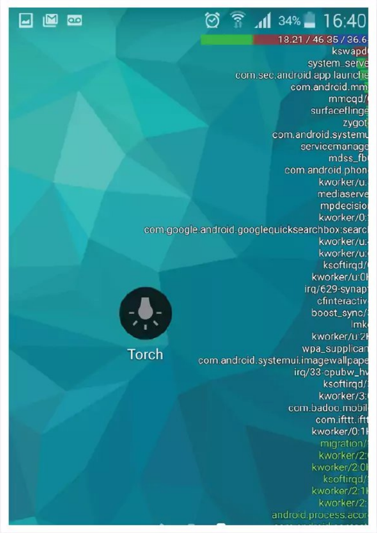
Enable 4x MSAA ☑
Enable 4x MSAA in OpenGL ES 2.0 apps.

Disable hardware overlays ☐
Always use GPU for screen compositing.

Simulate color space
Disabled

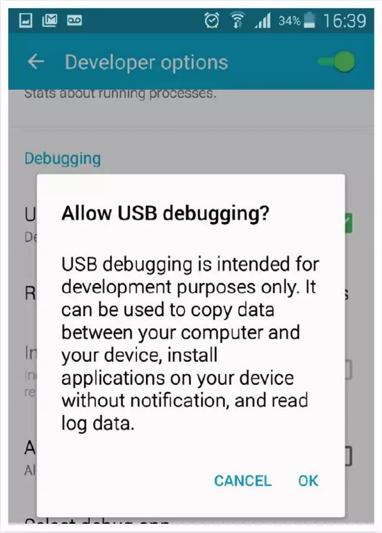
4 - Force 4x MSAA

If you have a powerful phone or tablet and play a lot of games, this setting, which forces multi-sample anti-aliasing (MSAA), can be useful. It essentially makes things look better (and not just games), but puts more strain on the CPU/RAM.



5 - Profile GPU Rendering

This setting draws a visual rendering of how hard the GPU is working over a period of time. You can either view on screen or save to a file. This can be useful if you are trying to work out what apps or features are causing battery drain or lag.



Allow USB debugging?

USB debugging is intended for development purposes only. It can be used to copy data between your computer and your device, install applications on your device without notification, and read log data.

6 - USB Debugging

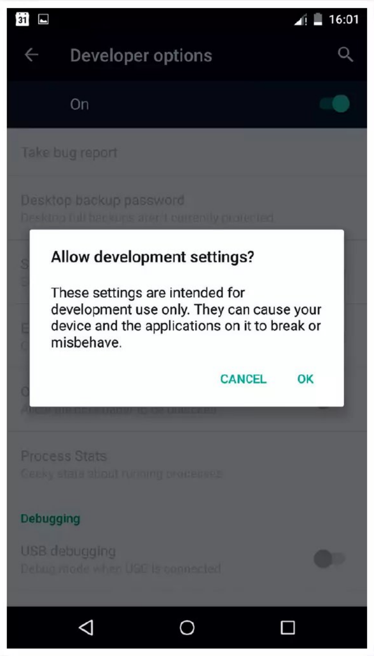
Allows your Android device to communicate via USB to your computer via the Android Debug Bridge (ADB). You can also revoke USB debugging authorisations. This setting will need to be enabled if you plan to flash custom ROMs during rooting.

Speed Up Android Animations

You may already know about the hidden developer menu available on all Android devices running version 4.0 or later of the OS. Within this initially confusing list of settings, you can find some really useful tools for making your device run faster and more smoothly, as well as a few simple tweaks to get the most from your phone or tablet. Here we will look at using animation settings to improve overall performance.

Modify Animation Settings

You can now begin to modify development settings, including the animation settings. It is a good idea to back up your device before continuing.



Take bug report

Desktop backup password

Desktop full backups aren't currently protected

Allow development settings?

These settings are intended for development use only. They can cause your device and the applications on it to break or misbehave.

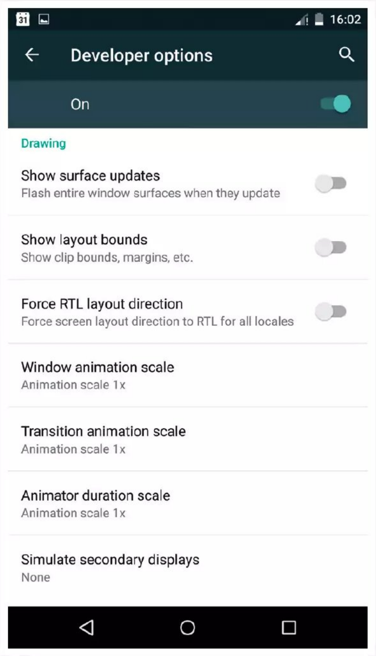
Process Stats

Geeky stats about running processes

USB debugging

Debug mode when USB is connected

1 Whilst it may be tempting to play around with the settings here, we suggest leave everything alone until you know what the possible effects could be. And if you do decide to change developer options, change them one at a time and test the changes before altering anything else. Otherwise it can be hard to know what caused any problems that occur.



Show surface updates
Flash entire window surfaces when they update

Show layout bounds
Show clip bounds, margins, etc.

Force RTL layout direction
Force screen layout direction to RTL for all locales

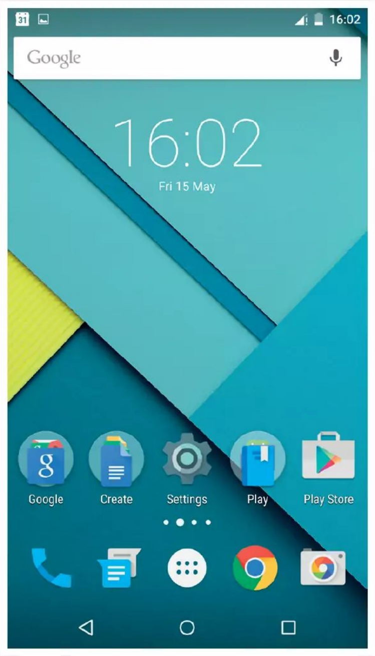
Window animation scale
Animation scale 1x

Transition animation scale
Animation scale 1x

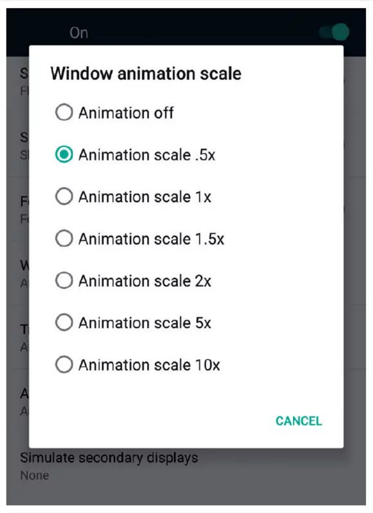
Animator duration scale
Animation scale 1x

Simulate secondary displays
None

2 For this guide, we are looking at animation options, which can be found in the "Drawing" section about halfway down the list of settings. You will see three animation settings: Window animation scale, Transition animation scale and Animator duration scale. Each of these options will be set to "1x." This means animations running at normal speed.



3 Before we go further, you should understand what is mean by animations on Android. Without animations, switching home screen panels, opening apps or scrolling would appear to be an instant switch from one screen to another. Animations provide the sliding effect of home panels or the grow effect when opening a new app.


On

Window animation scale

○ Animation off

● Animation scale .5x

○ Animation scale 1x

○ Animation scale 1.5x

○ Animation scale 2x

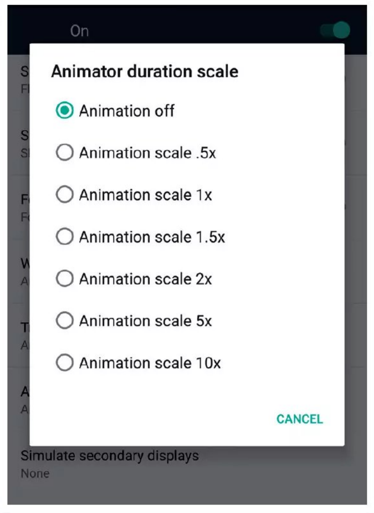
○ Animation scale 5x

○ Animation scale 10x

CANCEL

Simulate secondary displays
None

4 Your device has to process these animations every time you switch screens or open an app. But by reducing the animation speed to ".5x", you can speed up all transition effects and not only improve how fast your device runs, but the shorter animation sequences will also make the device seem smoother.


On

Animator duration scale

● Animation off

○ Animation scale .5x

○ Animation scale 1x

○ Animation scale 1.5x

○ Animation scale 2x

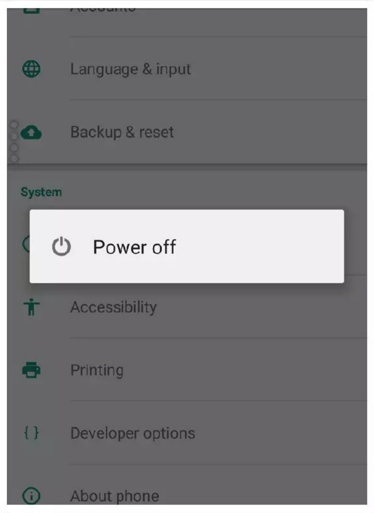
○ Animation scale 5x

○ Animation scale 10x

CANCEL

Simulate secondary displays
None

5 If you want to go further, you can change the animation scales to Off. You will speed up transitions and window animations to their fastest, but you will lose some of the smoothness of the operating system. Choosing .5x is a good compromise between speed and how your device looks when used.


Language & input

Backup & reset

System

Power off

Accessibility

Printing

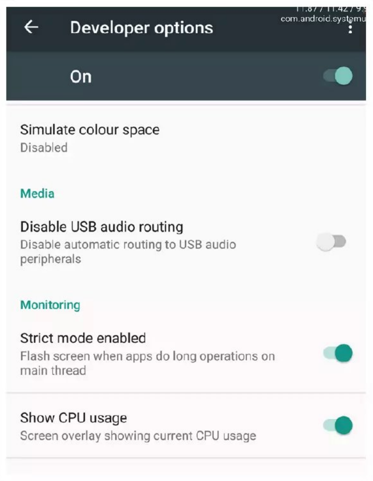
Developer options

About phone

6 If you find that the changes are causing problems, or if you are seeing no improvement in animation speed, try restarting your device. If this still doesn't help, go back into the settings > Developer Options, and reset all of the changes to their original state (or simply turn Developer options off).

Monitoring Performance

There are also several options in the Developer settings that allow you to monitor the performance of your device. This is useful if animation settings cause problems.


Developer options

On

Simulate colour space
Disabled

Media

Disable USB audio routing
Disable automatic routing to USB audio peripherals

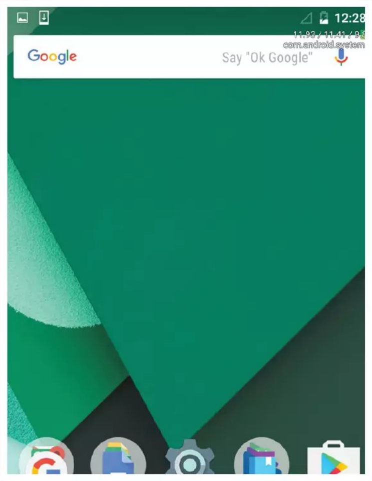
Monitoring

Strict mode enabled
Flash screen when apps do long operations on main thread

Show CPU usage
Screen overlay showing current CPU usage

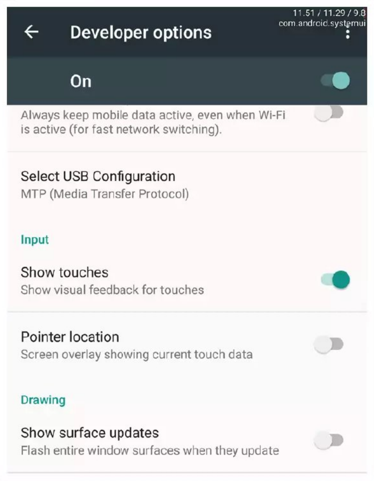
Strict Mode

Enabling this option in the Monitoring section of the Developer settings will cause the screen to flash when apps perform long, potentially heavy data use operations. This allows you to see whether app animations are causing system strain.



Show CPU Usage

This option puts an overlay on the screen that shows CPU (the main device processor) usage at all times. This will display as a red and green bar at the top right of the screen. It allows you to see which actions are causing the most CPU strain.


Developer options

On

Always keep mobile data active, even when Wi-Fi is active (for fast network switching).

Select USB Configuration
MTP (Media Transfer Protocol)

Input

Show touches
Show visual feedback for touches

Pointer location
Screen overlay showing current touch data

Drawing

Show surface updates
Flash entire window surfaces when they update

Show Touches

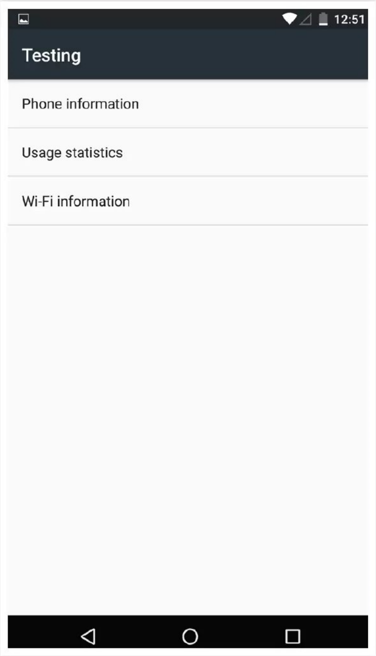
This option is in the Input section and enables screen touch feedback. By viewing where the screen registers your touches, you can monitor whether the system is working accurately. If touches are out of place, you can sometimes fix this by restarting your device.

Hidden Android Test Menus

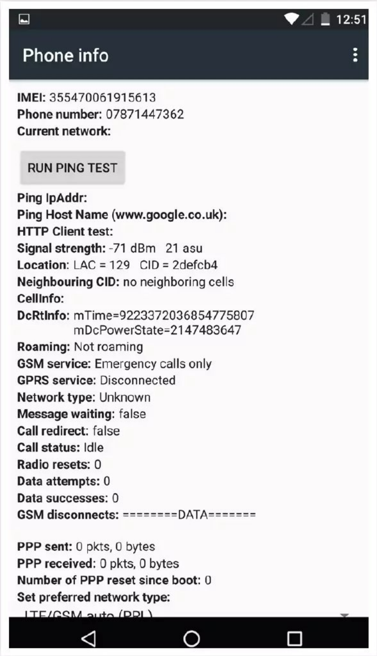
Hidden within every Android device is a collection of different test menus, that allows users to check allsorts, including how well the touchscreen is responding and whether the notification LEDs are working. You don't need any special apps or additional software to access these test menus, you just need to know which code to enter into the dialler screen. Let's take a look at some of the most useful test menus and what they allow you to do.

Testing Menu Code

Whichever carrier or manufacturer is involved, these test codes should work for the majority of Android devices. If they do not, try searching online for specific codes for your particular device.


12:51
Testing
Phone information
Usage statistics
Wi-Fi information

1 Open the phone dialler screen on your phone and type __*#*#4636#*#*__. As soon as you type the last *, the test menu will appear on screen. This contains four main sections: Phone Information, Battery Information, Usage Statistics and Wi-Fi Information. Tap any heading to see more info.

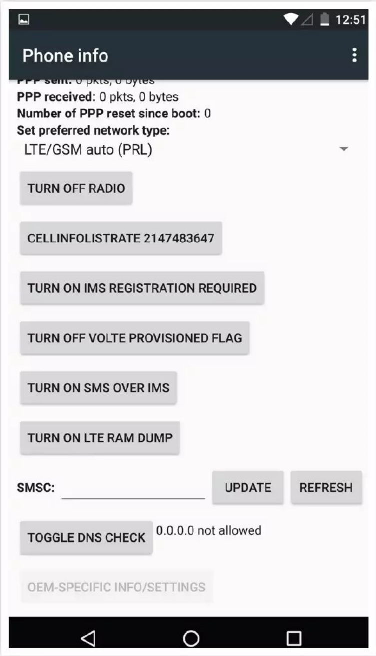

12:51
Phone info
RUN PING TEST

IMEI: 355470061915613
Phone number: 07871447362
Current network:

Ping IpAddr:
Ping Host Name (www.google.co.uk):
HTTP Client test:
Signal strength: -71 dBm 21 asu
Location: LAC = 129 CID = 2defcb4
Neighbouring CID: no neighboring cells
CellInfo:
DcRtInfo: mTime=9223372036854775807
mDcPowerState=2147483647
Roaming: Not roaming
GSM service: Emergency calls only
GPRS service: Disconnected
Network type: Unknown
Message waiting: false
Call redirect: false
Call status: Idle
Radio resets: 0
Data attempts: 0
Data successes: 0
GSM disconnects: ========DATA=======

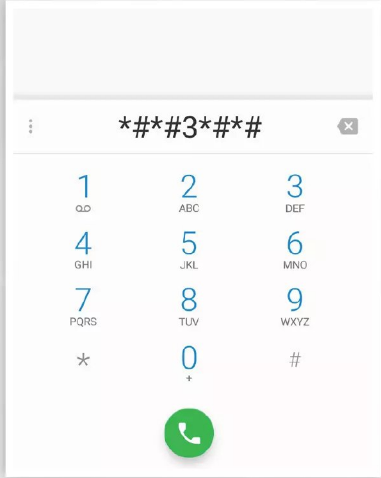
PPP sent: 0 pkts, 0 bytes
PPP received: 0 pkts, 0 bytes
Number of PPP reset since boot: 0
Set preferred network type:

2 You can gain access to a lot of general information about your phone by going into the Phone information menu. You will also be able to run a PING test that checks the speed of connection to your current phone mast. Be careful when running tests or changing configurations.


12:51
Phone info
TURN OFF RADIO
CELLINFOLISTRATE 2147483647
TURN ON IMS REGISTRATION REQUIRED
TURN OFF VOLTE PROVISIONED FLAG
TURN ON SMS OVER IMS
TURN ON LTE RAM DUMP
UPDATE
REFRESH
TOGGLE DNS CHECK
OEM-SPECIFIC INFO/SETTINGS

PPP received: 0 pkts, 0 bytes
Number of PPP reset since boot: 0
Set preferred network type:
LTE/GSM auto (PRL)
SMSC:
0.0.0.0 not allowed

3 If your device has a removable battery, you can find lots of detailed information about the battery in the Battery Info screen. As well as showing the charge percentage remaining, it will reveal if the battery health is good, letting you decide whether buying a replacement is worth considering.



Useful Android Test Codes

Here are some more Android test menu codes to try out. These may not work for every device, but should work for most Android phones.

Camera Information - *#*#34971539#*#* -

To see detailed information about the camera hardware and software in your phone.

Service Test Mode - *#*#197328640#*#*

This Android secret menu lets you access service mode where you can run various tests.

LCD Test Code - *#*#0*#*#*

This lets you test the LCD display on your device, to see if there are any display errors.

RAM Details Menu - *#*#3264#*#*

This Android secret code can be used to find out your phone's RAM version.

Touch Screen Test - *#*#2664#*#*

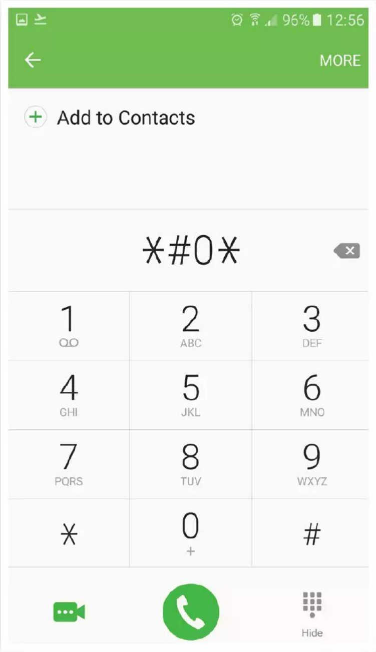
If you want to test your phone's touch screen, then use the code shown here.

Phone IMEI Number - *#06#

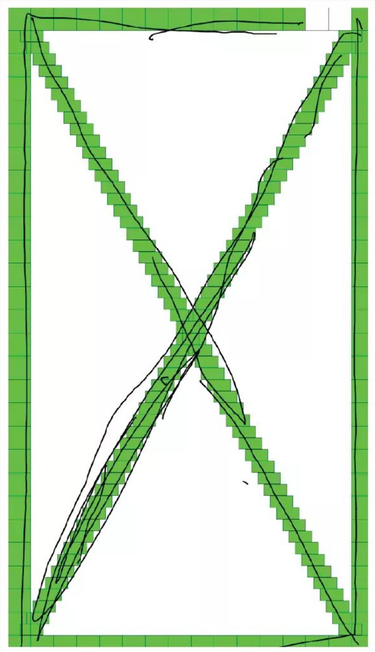
One of the most popular and useful hidden menu codes for Android, showing you the IMEI number of your device.

Service Test Mode

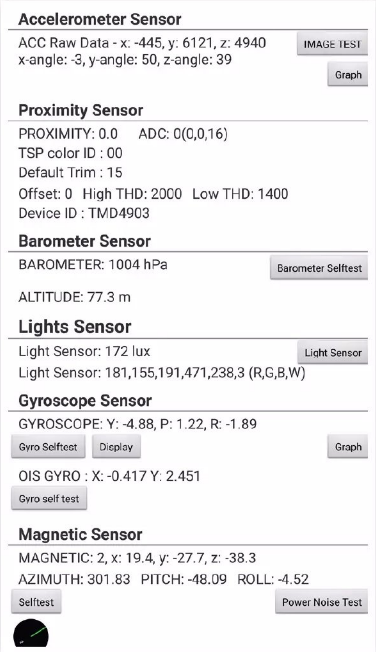
If you are using a Android device, such as the S6, you can access a unique menu that gives you access to all sorts of tests.



1 As with the previous codes, you will need to enter this one into the dialler screen on your Android phone. Enter the code *#0*#. As soon as you enter the code, the test menu will appear. This code may not work on very old Android devices but it should on most.



2 The screen should now be filled with buttons giving access to the tests shown on each. Within each test there may be additional options or requirements. The Touch screen test, for example, requires you to use your finger to highlight all of the elements on the screen before it will complete.



Accelerometer Sensor

ACC Raw Data - x: -445, y: 6121, z: 4940
x-angle: -3, y-angle: 50, z-angle: 39

Proximity Sensor

PROXIMITY: 0.0 ADC: 0(0,0,16)
TSP color ID : 00
Default Trim : 15
Offset: 0 High THD: 2000 Low THD: 1400
Device ID : TMD4903

Barometer Sensor

BAROMETER: 1004 hPa
ALTITUDE: 77.3 m

Lights Sensor

Light Sensor: 172 lux
Light Sensor: 181,155,191,471,238,3 (R,G,B,W)

Gyroscope Sensor

GYROSCOPE: Y: -4.88, P: 1.22, R: -1.89
OIS GYRO : X: -0.417 Y: 2.451

Magnetic Sensor

MAGNETIC: 2, x: 19.4, y: -27.7, z: -38.3
AZIMUTH: 301.83 PITCH: -48.09 ROLL: -4.52

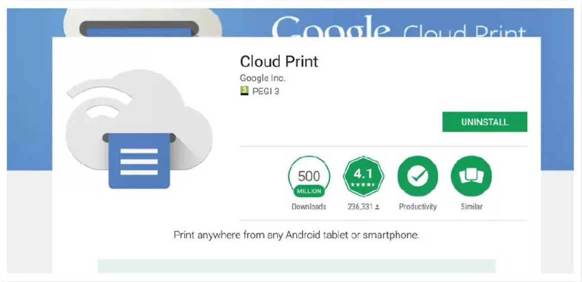
3 You can leave any of the tests, either when they are complete, or by tapping the Back button on your phone. Once you have completed all of the tests you want to perform, you can leave the test menu by tapping the Back button on your phone twice in quick succession.

Save Web Pages Offline

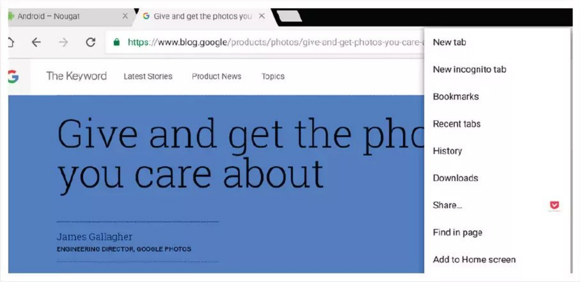
Your smartphone browser makes it easy to bookmark web pages which you might want to read or refer to at a later date. But what about those occasions when you know you will need to read something online, but also know that you won't have access to a Wi-Fi or Mobile Data connection? Sure, you could spend a load of time cutting and pasting copy from a page to a text document, but why bother when there is a much more elegant solution?

Save Web Pages as PDF

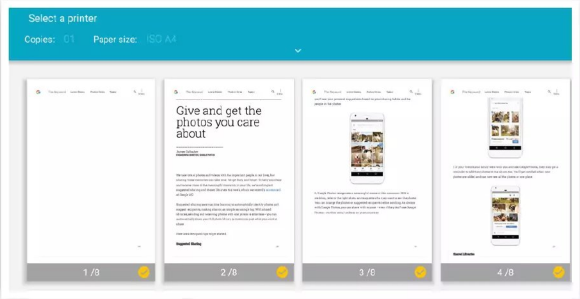
There are a few different options available to you when you want to save a web page for offline reading. The first we will look at is saving as a PDF file.


Google Cloud Print
Cloud Print
Google Inc.
PEGI 3
UNINSTALL
500 MILLION
Downloads
4.1 ★★★★★
236,331
Productivity
Similar
Print anywhere from any Android tablet or smartphone.

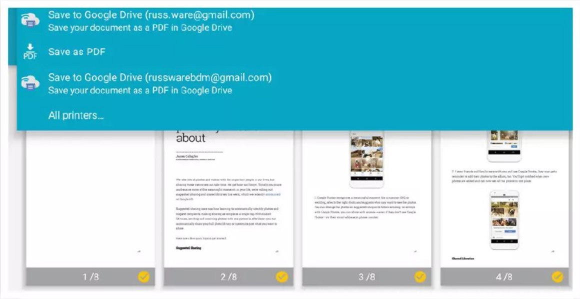
1 This first technique should require no additional apps to be installed, instead taking advantage of the built-in support for PDF's which is part of the printing options on Android. However, if you are using an older device, with an older version of Android, you may need to install the Cloud Print app.


Android – Nougat
Give and get the photos you
https://www.blog.google/products/photos/give-and-get-photos-you-care-
The Keyword
Latest Stories
Product News
Topics
Give and get the pho
you care about
James Gallagher
ENGINEERING DIRECTOR, GOOGLE PHOTOS
New tab
New incognito tab
Bookmarks
Recent tabs
History
Downloads
Share...
Find in page
Add to Home screen

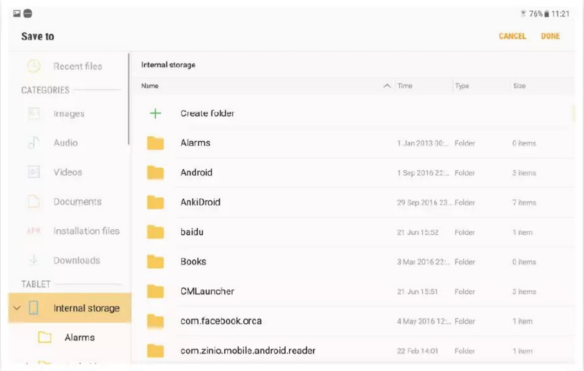
2 Open the web page you want to save to read offline later. In this example, we are using the Chrome browser, but the same features are available in almost all third-party browsers as well. In Chrome, tap the Menu button in the top-right corner, and from the menu, tap the Print option.


Select a printer
Copies: 01
Paper size: ISO A4
Give and get the photos you care about
1 /8
2 /8
3 /8
4 /8

3 The Print Preview screen will appear, showing you what would be printed (should you choose to do that). In most cases, you can use the check mark buttons on each of the displayed preview pages to select and deselect those you don't want. With the content you want selected, tap the printer name.

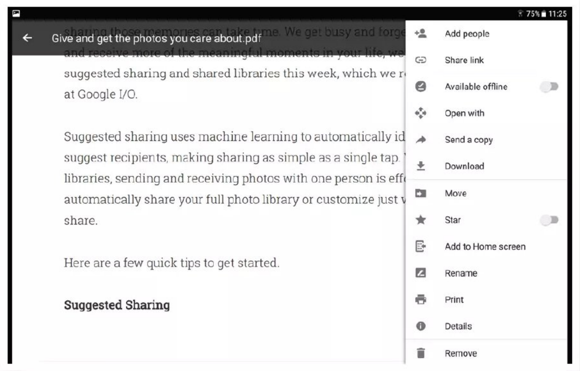

Save to Google Drive (russ.ware@gmail.com)
Save your document as a PDF in Google Drive
Save as PDF
Save to Google Drive (russwarebdm@gmail.com)
Save your document as a PDF in Google Drive
All printers...
about
1 /8
2 /8
3 /8
4 /8

4 This will display any printers available to send the page to for printing. It will also include the option to "Save as PDF". Tap this option and the "Print" button will change to a "PDF" button. Tap this and a "Save to" menu will open. You can then choose to save to Google Drive or Downloads.


76% 11:21
Save to
CANCEL
DONE
Recent files
CATEGORIES
Images
Audio
Videos
Documents
Installation files
Downloads
TABLET
Internal storage
Alarms
Internal storage
Create folder

Name	Time	Type	Size
Alarms	1 Jan 2013 00:...	Folder	0 items
Android	1 Sep 2016 22:...	Folder	3 items
AnkiDroid	29 Sep 2016 23...	Folder	7 items
baidu	21 Jun 15:52	Folder	1 item
Books	3 Mar 2016 22:...	Folder	0 items
CMLauncher	21 Jun 15:51	Folder	3 items
com.facebook.orca	4 May 2016 12:...	Folder	1 item
com.zinio.mobile.android.reader	22 Feb 14:01	Folder	1 item

5 Saving to Google Drive is a good idea, as this means the file will be available on any devices which are linked to your Drive. After a few seconds, the file is saved. The final thing you need to do is open Google Drive, tap the ! button on the file and use the slider to make it "Available Offline".


75% 11:25
Give and get the photos you care about.pdf
Add people
Share link
Available offline
Open with
Send a copy
Download
Move
Star
Add to Home screen
Rename
Print
Details
Remove

sharing those memories can take time. We get busy and forge
and receive more of the meaningful moments in your life, we
suggested sharing and shared libraries this week, which we r
at Google I/O.

Suggested sharing uses machine learning to automatically id
suggest recipients, making sharing as simple as a single tap.
libraries, sending and receiving photos with one person is eff
automatically share your full photo library or customize just v
share.

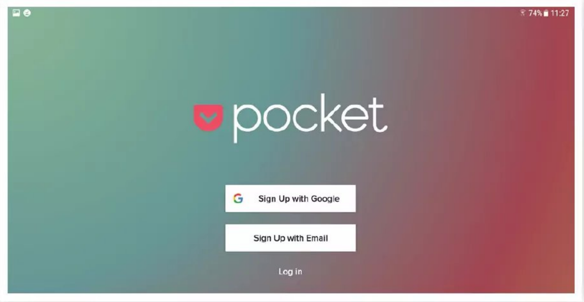
Here are a few quick tips to get started.

Suggested Sharing

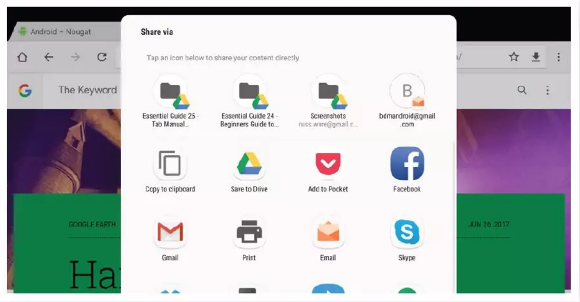
6 You can, of course, choose to save to Downloads. This saves the PDF onto your device straight away (but only the device you download it on). The great thing about saving web pages like this is that everything is kept intact in the document, from text links to images and diagrams.

Save Web Pages to Pocket

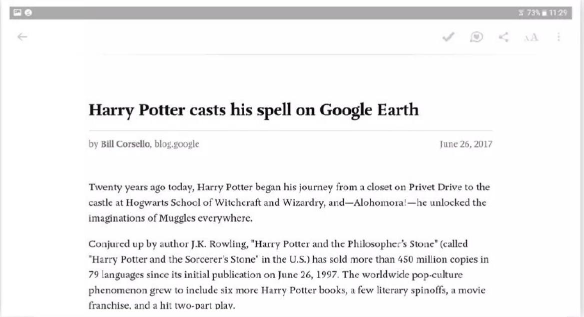
Pocket allows you to Save directly from your browser or from apps like Twitter, Flipboard, Pulse and Zite. You can download Pocket from the Play Store.


74% 11:27
pocket
Sign Up with Google
Sign Up with Email
Log in

1 The first thing you will need to do is set up a Pocket account. Open the app and tap the Sign Up button. Choose a username and password, and enter an email address. If you prefer, you can set up your Pocket account on your computer. Head over to getpocket.com and look for "Sign Up".


Android – Nougat
The Keyword
Share via
Tap an icon below to share your content directly
Essential Guide 25 - Tab Manual...
Essential Guide 24 - Beginners Guide to...
Screenshots russ.ware@gmail.c...
bdmandroid@gmail.com
Copy to clipboard
Save to Drive
Add to Pocket
Facebook
Gmail
Print
Email
Skype
GOOGLE EARTH
JUN 26, 2017
Ha

2 To save a webpage to Pocket, open your browser and navigate to the page. Tap the Menu button and select Share > Save to Pocket. Open Pocket and view your list. Here you will see any saved pages, including a thumbnail image if the page had any (the main image will be shown).



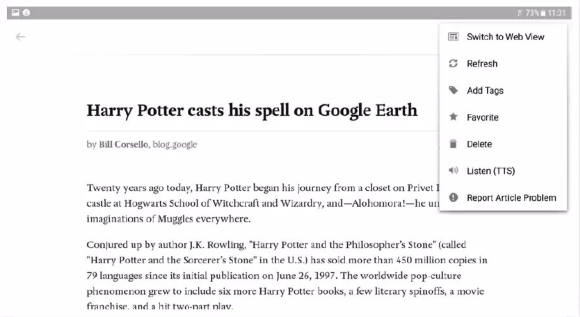
Harry Potter casts his spell on Google Earth

by **Bill Corsello**, blog.google June 26, 2017

Twenty years ago today, Harry Potter began his journey from a closet on Privet Drive to the castle at Hogwarts School of Witchcraft and Wizardry, and—Alohomora!—he unlocked the imaginations of Muggles everywhere.

Conjured up by author J.K. Rowling, "Harry Potter and the Philosopher's Stone" (called "Harry Potter and the Sorcerer's Stone" in the U.S.) has sold more than 450 million copies in 79 languages since its initial publication on June 26, 1997. The worldwide pop-culture phenomenon grew to include six more Harry Potter books, a few literary spinoffs, a movie franchise, and a hit two-part play.

3 Tap any item in the list to view it. You can change the display style, including screen brightness and font size, using the buttons at the top of the page. Once you have finished reading the article, you can archive it by tapping the Tick button. Alternatively, tap the Menu button and delete the article.


73% 11:31
Switch to Web View
Refresh
Add Tags
Favorite
Delete
Listen (TTS)
Report Article Problem

Harry Potter casts his spell on Google Earth

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castle at Hogwarts School of Witchcraft and Wizardry, and—Alohomora!—he ur
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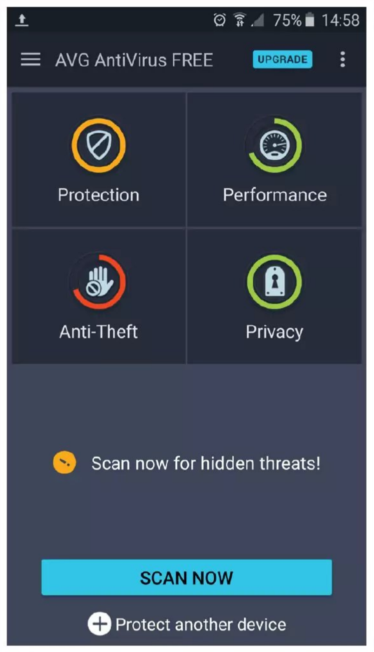
4 Pocket will save pages in a stripped down form, which usually means that images won't display when reading offline in the app. If you prefer, and if you have a Internet connection, you can tap the menu button in Pocket and select "Switch to Web View" to see the original full version.

Dealing with Viruses on Android

In some ways, when it comes to viruses, malware and other tech nasties, Android is a victim of both its own success and of its open nature. If you read any of the tech news, or even mainstream news sometimes, it can seem like virus threats on Android are increasing by the week. Exactly how much of a problem is this then and what is Google doing to make sure your device isn't affected? Read on to learn more about viruses on Android.



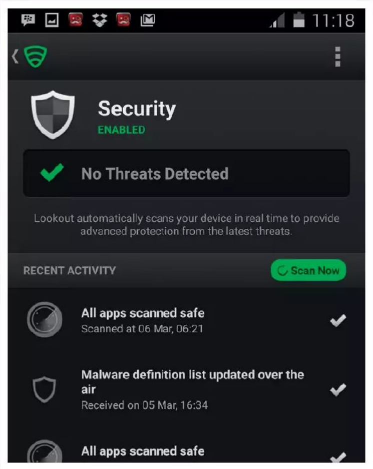
Scan now for hidden threats!

Antivirus Software

Just like on your computer there are lots of different Anti-virus tools available on Android; and just like on a PC, they all do broadly similar things and offer similar features. You will also have a choice of using a free app, or paying for a premium app. One of the best free apps is AVG AntiVirus FREE. With AVG AntiVirus FREE for Android phones and tablets you'll receive effective, easy-to-use virus and malware protection, as well as a real-time app scanner, phone locator, task killer, app lock and local device wipe.

Understanding Virus Threats

You really don't need to panic over the threat of viruses on your device, but it makes sense to know more about them.



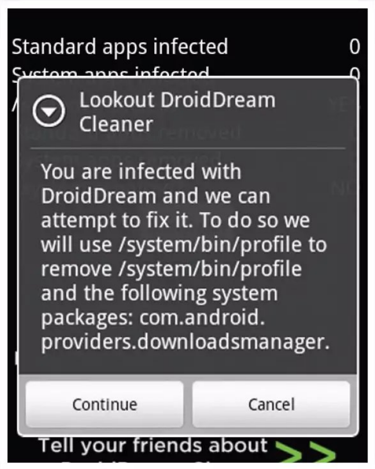
No Threats Detected

Lookout automatically scans your device in real time to provide advanced protection from the latest threats.

All apps scanned safe
Scanned at 06 Mar, 06:21

Malware definition list updated over the air
Received on 05 Mar, 16:34

All apps scanned safe



Standard apps infected 0

You are infected with DroidDream and we can attempt to fix it. To do so we will use /system/bin/profile to remove /system/bin/profile and the following system packages: com.android. providers.downloadsmanager.

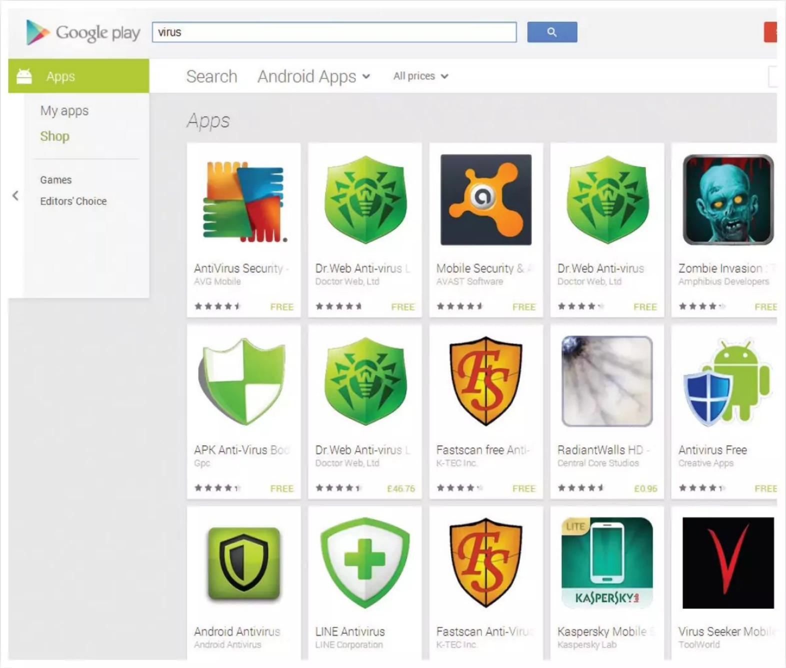
Tell your friends about

Android Viruses

There are thankfully still few known viruses which affect the Android operating system. One of the most well-known is Trojan-SMS. AndroidOS.FakePlayer.a. This was the first Trojan-SMS virus identified on Android, and was thought to have infected hundreds of thousands of devices. The virus was capable of sending SMS messages to premium rate numbers without the user having any indication that something was wrong. Other well-known viruses include Gingermaster, which was capable of stealing user information from the infected device (user ID, SIM, IMEI, etc.) and DroidKungFu, which allowed back door access to the device and files to be removed.

Android Malware

The distinction between viruses and malware on Android is something of a grey area. Viruses get called malware and malware get called viruses. It is safe to say, however, that you really don't want either to infect your device. One of the best known malware attacks was DroidDream (also known as Android. Rootcager) which affected around 60 apps on the Android Market (Google Play store) in 2011. The malware added infected devices to a botnet, installed additional software and stole data. It is thought that hundreds of thousands of devices were infected, even though Google was quick to release a fix for the problem.


Google play
virus
Apps
My apps
Shop
Games
Editors' Choice
Search
Android Apps
All prices
Apps
AntiVirus Security -
AVG Mobile
FREE
Dr.Web Anti-virus L
Doctor Web, Ltd
FREE
Mobile Security & A
AVAST Software
FREE
Dr.Web Anti-virus
Doctor Web, Ltd
FREE
Zombie Invasion : T
Amphibius Developers
FREE
APK Anti-Virus Boo
Gpc
FREE
Dr.Web Anti-virus L
Doctor Web, Ltd
£46.76
Fastscan free Anti-
K-TEC Inc.
FREE
RadiantWalls HD -
Central Core Studios
£0.96
Antivirus Free
Creative Apps
FREE
Android Antivirus
Android Antivirus
LINE Antivirus
LINE Corporation
Fastscan Anti-Viru
K-TEC Inc.
LITE
KASPERSKY
Kaspersky Mobile
Kaspersky Lab
Virus Seeker Mobil
ToolWorld

What is Google Doing?

Although it hasn't always been super quick to remove infected or suspicious apps from the Play Store, Google is now taking the threat of malicious software seriously. It is getting quicker at removing dodgy apps, and in 2012 the company introduced Bouncer. Bouncer provides automated scanning of the Android Market for potentially malicious software without disrupting the user experience of the Android Market or requiring developers to go through an application approval process. Android also features several things that reduce the threat of malware and viruses.

Sandboxing

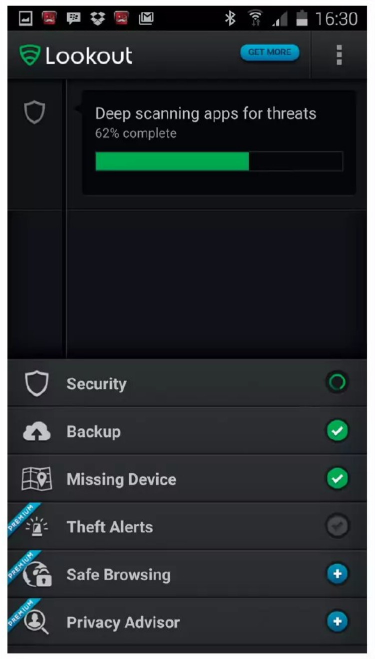
The Android platform uses a technique called "sandboxing" to put virtual walls between applications and other software on the device. So, if you download a malicious application, it can't access data on other parts of your phone and its potential harm is drastically limited.

Permissions

Android provides a permission system to help you understand the capabilities of the apps you install, and manage your own preferences. That way, if you see a game unnecessarily requests permission to send SMS, for example, you don't want to install it.

Malware removal

Android is designed to prevent malware from modifying the platform or hiding from you, so it can be easily removed if your device is affected. Android Market also has the capability of remotely removing malware from your phone or tablet, if required.


16:30
Lookout
GET MORE
Security
Backup
Missing Device
PREMIUM
Theft Alerts
PREMIUM
Safe Browsing
PREMIUM
Privacy Advisor

Deep scanning apps for threats
62% complete

Virus and Malware Safety Tips

No operating system is completely safe, but it can be made safer by following a few simple steps. These tips will help to reduce the possibility of your Android device being infected.

1 Install a reputable anti-virus app on your device. Although the way Android is built means that anti-virus apps cannot be perfect, having one installed will at least catch some infections.

2 Avoid installing apps from third-party app stores if at all possible. Sideloading (installing apps using the .apk files found on unofficial websites) can be a source of virus infection.

3 Google, via the Play Store, can remotely remove infected applications from your phone. If you receive a notification to tell you a suspect app has been removed, make sure that you double-check.

4 It is highly advisable to keep installation of apps from Unknown Sources set to Off in the device's settings. This will help ensure that nothing enters the system except through official channels.

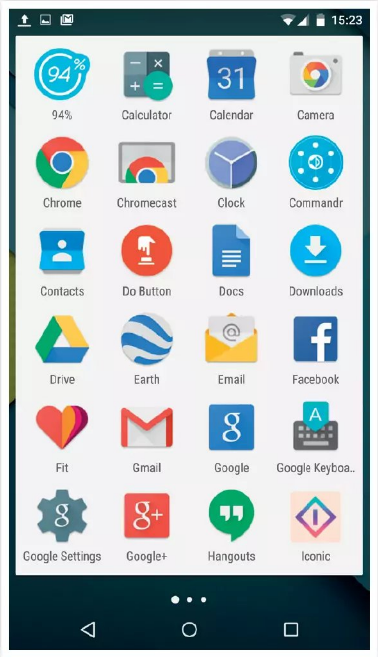
5 Check permissions carefully. When you install any app from the Play Store, you are shown which permissions the app requires to work. If you don't like the sound of any of the permissions, avoid the app.

Disable Android Bloatware

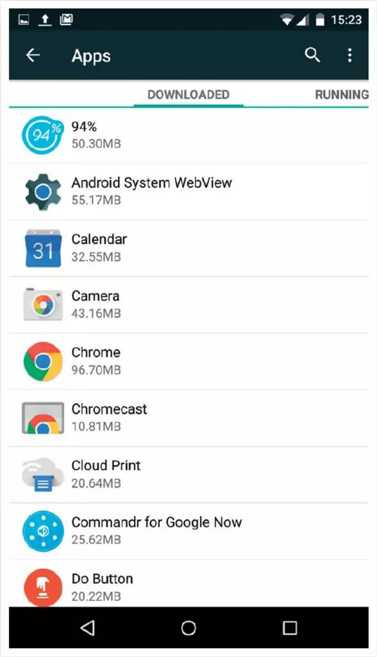
No matter which brand of Android device you choose, from Acer to ZTE, most are all guilty of containing at least a few examples of bloatware. Bloatware means apps or services added by the manufacturer or carrier which take up memory and processing power on a device. Unless you want to root your device, removing bloatware is not possible. Disabling it however is possible.

Application Settings

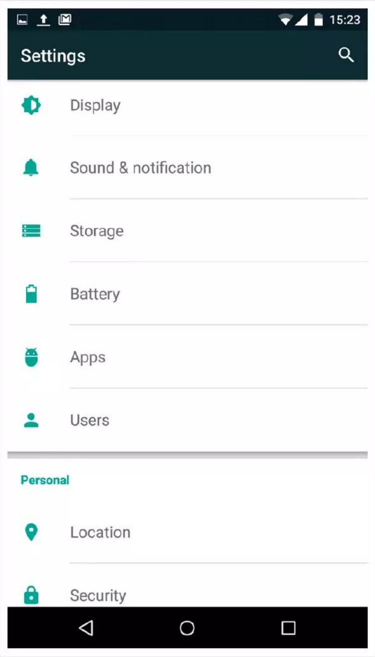
The exact location of the app settings will vary between devices. You should however, always be looking for Applications, App Management or App Settings.


15:23
94%
Calculator
Calendar
Camera
Chrome
Chromecast
Clock
Commandr
Contacts
Do Button
Docs
Downloads
Drive
Earth
Email
Facebook
Fit
Gmail
Google
Google Keyboa..
Google Settings
Google+
Hangouts
Iconic

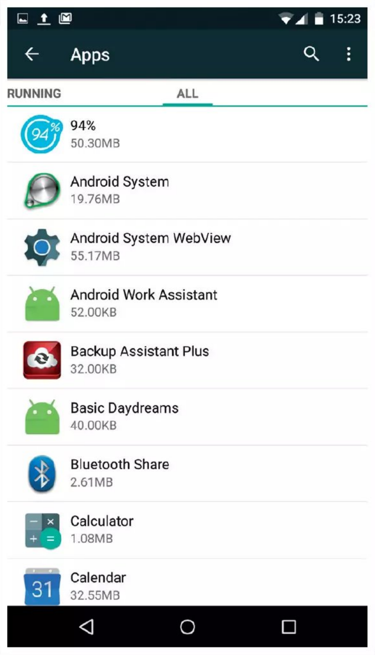
1 When disabling bloatware, don't be fooled into thinking that just because you don't use a particular app or service that it is not essential to your device. Removing essential apps or services may cause problems with how your device works. It is therefore important that you understand exactly what you are disabling before you disable it.


15:23
Apps
DOWNLOADED
RUNNING
94%
50.30MB
Android System WebView
55.17MB
Calendar
32.55MB
Camera
43.16MB
Chrome
96.70MB
Chromecast
10.81MB
Cloud Print
20.64MB
Commandr for Google Now
25.62MB
Do Button
20.22MB

2 The best way to put a stop to bloatware safely, is to disable one app at a time. Once you have disabled an app, check that your device is still working as it should before you go ahead and remove the next bit of bloatware. This makes the task of removing bloatware more labourious, but reduces the risk of disabling something important by mistake.

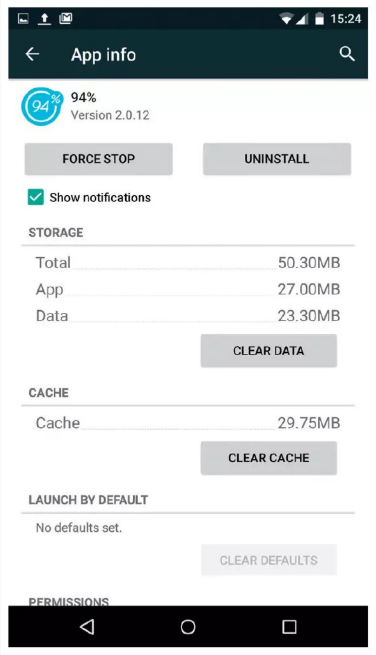

15:23
Settings
Display
Sound & notification
Storage
Battery
Apps
Users
Personal
Location
Security

3 To actually begin disabling bloatware on your Android device, open the main settings app on and look for Application Manager. This may be in the main settings list under Apps or, on some older devices, under the More tab at the top of the main settings screen. The application manager is a great tool for viewing exactly what apps are running at any given time.


15:23
Apps
RUNNING
ALL

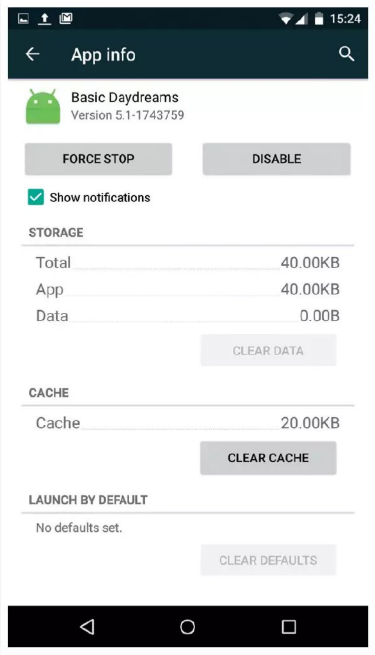
94% 50.30MB
Android System 19.76MB
Android System WebView 55.17MB
Android Work Assistant 52.00KB
Backup Assistant Plus 32.00KB
Basic Daydreams 40.00KB
Bluetooth Share 2.61MB
Calculator 1.08MB
Calendar 32.55MB

4 Tap Application Manager and swipe across the screen to the left. This will reveal the different application categories (Downloaded, On SD Card, Running and All). To find bloatware, go to the All tab.


15:24
App info
FORCE STOP
UNINSTALL
CLEAR DATA
CLEAR CACHE
CLEAR DEFAULTS
PERMISSIONS

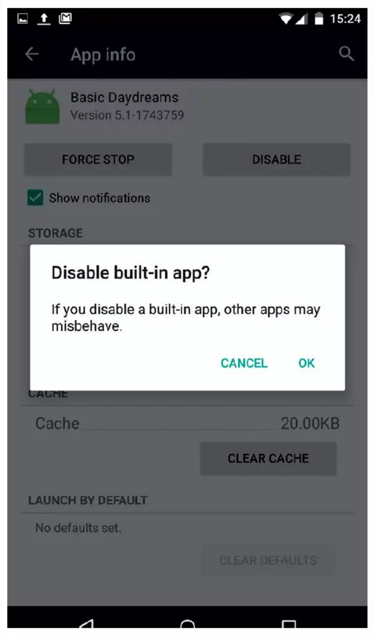
94%
Version 2.0.12
☑ Show notifications
STORAGE
Total 50.30MB
App 27.00MB
Data 23.30MB
CACHE
Cache 29.75MB
LAUNCH BY DEFAULT
No defaults set.

5 When you find an app or service that you think you would like to disable, tap on the name. If the app or service is not bloatware, you will see an Uninstall button next to the Force Stop button (you might also see uninstall updates).


15:24
App info
FORCE STOP
DISABLE
CLEAR DATA
CLEAR CACHE
CLEAR DEFAULTS

Basic Daydreams
Version 5.1-1743759
☑ Show notifications
STORAGE
Total 40.00KB
App 40.00KB
Data 0.00B
CACHE
Cache 20.00KB
LAUNCH BY DEFAULT
No defaults set.

6 When you find a bloatware app or service, the Uninstall button will say Disable instead. Some essential system services (such as the camera app or the Android system) will have the Disable button greyed out so it cannot be used.


15:24
App info
FORCE STOP
DISABLE
CANCEL
OK
CLEAR CACHE
CLEAR DEFAULTS

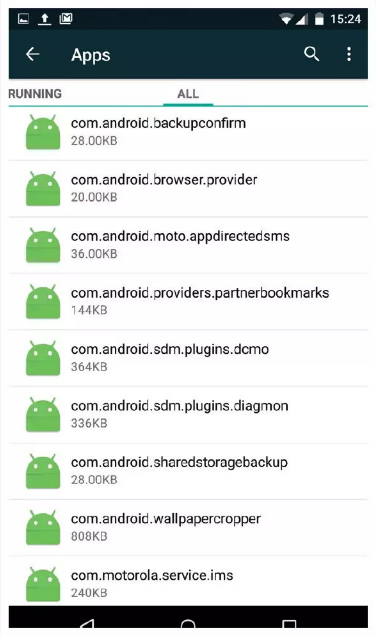
Basic Daydreams
Version 5.1-1743759
☑ Show notifications
STORAGE

Disable built-in app?

If you disable a built-in app, other apps may misbehave.

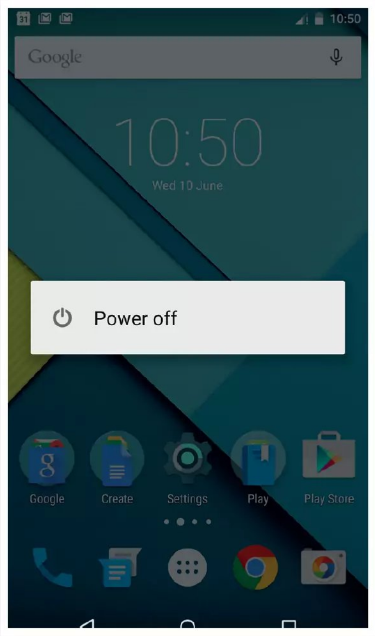
Cache 20.00KB
LAUNCH BY DEFAULT
No defaults set.

7 Click Disable on the bit of bloatware you want to stop. A warning will appear to tell you that completing this action may cause some apps to work incorrectly or not at all. Disabled apps will not appear in the app drawer.


15:24
Apps
RUNNING
ALL

com.android.backupconfirm 28.00KB
com.android.browser.provider 20.00KB
com.android.moto.appdirectedsms 36.00KB
com.android.providers.partnerbookmarks 144KB
com.android.sdm.plugins.dcmo 364KB
com.android.sdm.plugins.diagmon 336KB
com.android.sharedstoragebackup 28.00KB
com.android.wallpapercropper 808KB
com.motorola.service.ims 240KB

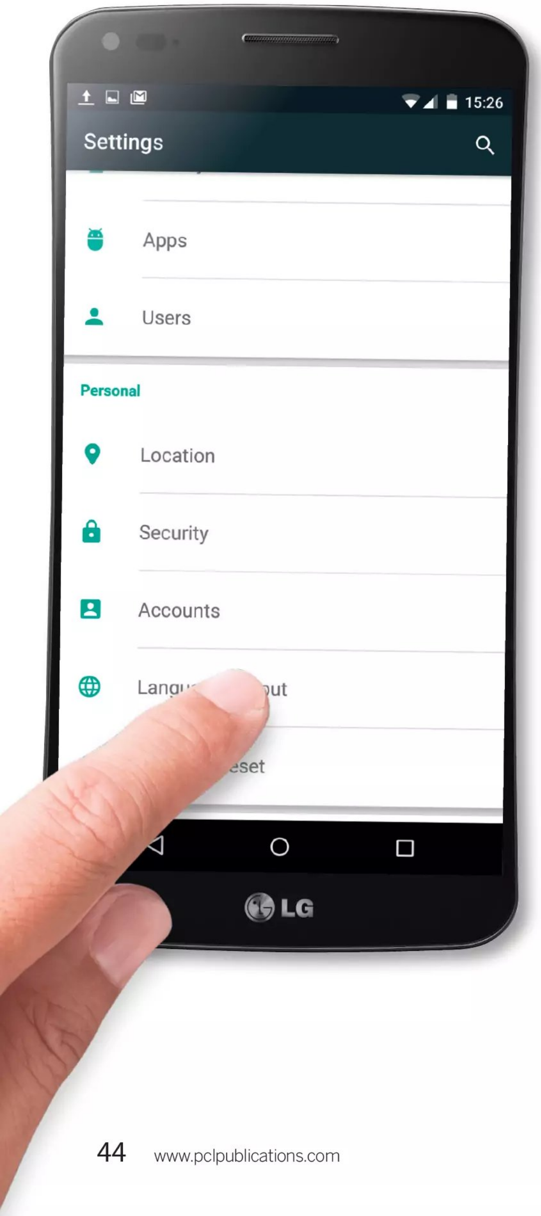
8 As a general rule, any app or service that should not be disabled will have an Android icon next to the name in the Application Manager. If you disable something by mistake, a restart of your device will often fix the error.


10:50
Google
10:50
Wed 10 June
Power off
Google
Create
Settings
Play
Play Store

9 When you finish disabling the bloatware you no longer want to have running, you may need to reboot your device for the icons to be removed from the home screen and main app drawer. It is best to perform a hard reset for a full reboot.

Sideloading Android APKs

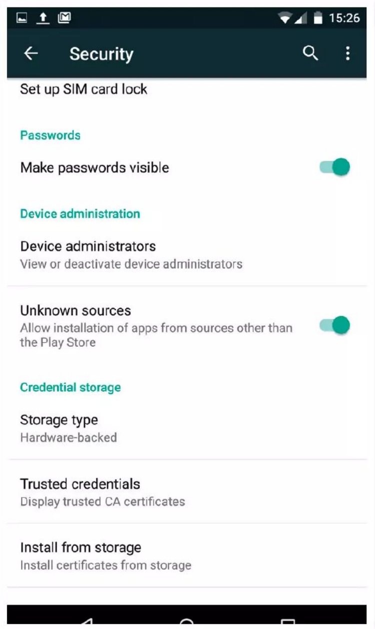
There are hundreds of thousands of apps available on the Google Play Store, from Angry Birds to Twitter to Groupon. Occasionally, there might be an app you want which isn't, for several possible reasons, available through the official download method. Although there are risks involved, it is possible to install apps using other methods. This is known as Sideloading.



Sideload with Confidence

Sideloading is inherently more risky than installing .apks from the Google Play store but as long as you take care, your device should be safe.

1 On your device (or any device running Android 4.0 or higher), tap the Main Settings app, tap the More tab and scroll down to Security. Under the Device Administration heading, select Unknown sources.



Security

Set up SIM card lock

Passwords

Make passwords visible ●

Device administration

Device administrators
View or deactivate device administrators

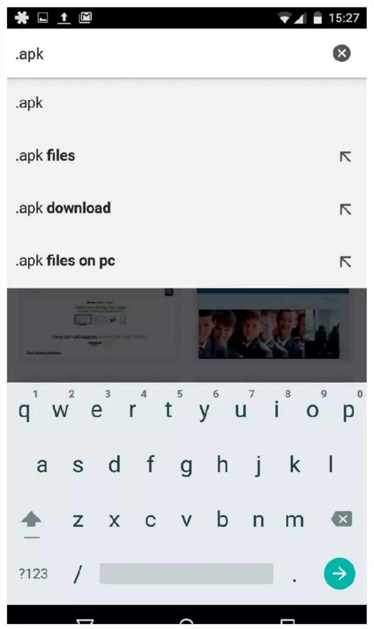
Unknown sources
Allow installation of apps from sources other than the Play Store ●

Credential storage

Storage type
Hardware-backed

Trusted credentials
Display trusted CA certificates

Install from storage
Install certificates from storage



.apk

.apk

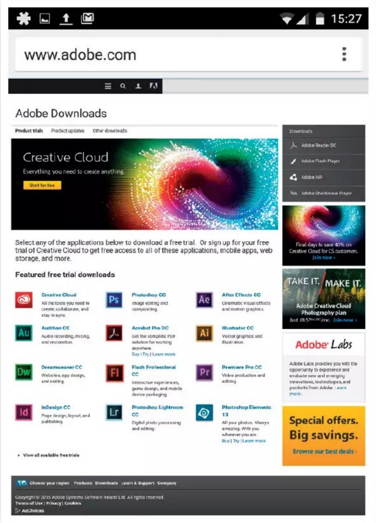
.apk **files**

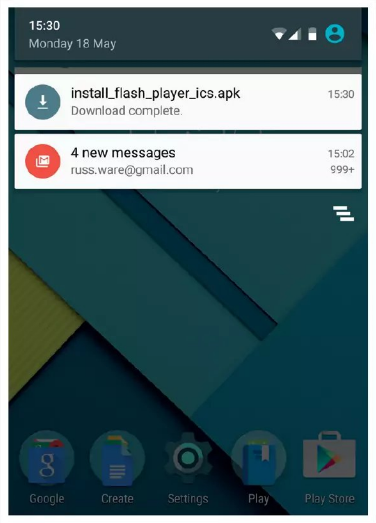
.apk **download**

.apk **files on pc**

2 Selecting this option will allow you to install apps outside of the Google Play Store. Depending on your device, you can also choose to be warned before installing harmful apps by selecting Verify Apps.

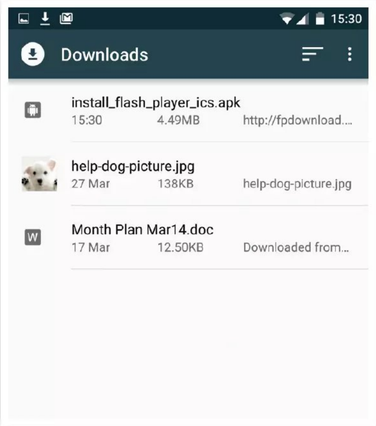
3 The next step will be finding an Android package file, also known as an APK, which is the way Android apps are packaged, distributed and installed. APKs can be found quite easily with a Google simple search.


15:27
www.adobe.com
Adobe Downloads
Creative Cloud
Featured free trial downloads
Adobe Labs
Special offers. Big savings.

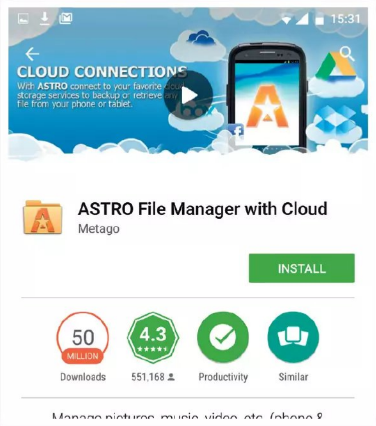

15:30
Monday 18 May
install_flash_player_ics.apk 15:30
Download complete.
4 new messages 15:02
russ.ware@gmail.com 999+
Google
Create
Settings
Play
Play Store

4 You should never use sideloading as a way to pirate applications. This is an almost sure-fire way of your Android device getting a virus. You should only download APK files from trusted developers and companies.

5 The easiest way to download and install an APK file is on your device. Use Chrome or the stock Android browser to navigate to the download page for the APK. You can also download on a PC and transfer the file.


15:30
Downloads

install_flash_player_ics.apk 15:30	4.49MB	http://fpdownload...
help-dog-picture.jpg 27 Mar	138KB	help-dog-picture.jpg
Month Plan Mar14.doc 17 Mar	12.50KB	Downloaded from...

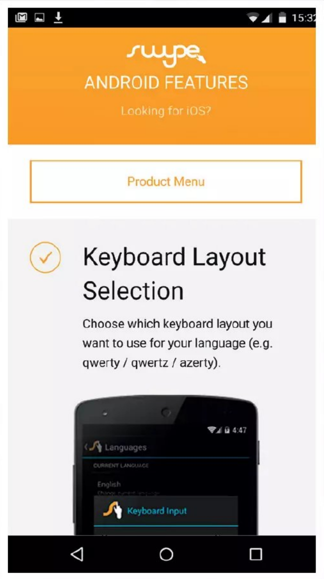

15:31
CLOUD CONNECTIONS
With ASTRO connect to your favorite cloud storage services to backup or retrieve any file from your phone or tablet.
ASTRO File Manager with Cloud
Metago
INSTALL
50 MILLION
Downloads
4.3
551,168
Productivity
Similar

6 Go to your app drawer and click Downloads; here you will find the file you just downloaded. Open the file and install the app. If you downloaded the APK file on your computer, the process is slightly different.

7 You will need to connect your Android device to a PC in USB mass-storage mode. Drag and drop the file onto your device and then, using a file manager such as Astro, you can locate the file on your device and install it.

Sideloading Explained

Sideloading is a term used in Internet culture, similar to “upload” and “download”, but in reference to the process of transferring data between two local devices, in particular between a computer and a mobile device such as a mobile phone, smartphone, PDA, tablet, portable media player or e-reader. Sideloading typically refers to media file transfer to a mobile device via USB, Bluetooth, Wi-Fi or by writing to a memory card for insertion into the mobile device. When referring to Android apps, “sideloading” typically means installing an application package in APK format onto an Android device. Such packages are usually downloaded from websites other than Google Play. Sideloading of apps is only possible if the user has allowed “Unknown Sources” in their Security Settings.


15:32
swype
ANDROID FEATURES
Looking for iOS?
Product Menu
Keyboard Layout Selection
Languages
English
Keyboard Input

Choose which keyboard layout you want to use for your language (e.g. qwerty / qwertz / azerty).

Risks of Sideloading

If you take precautions, the risk of installing apps from sources other than the Google Play Store is actually pretty minimal. Here are a few things to consider before sideloading.

Untested Software – Software which doesn’t work as it should is probably the least of the possible risks when sideloading apps onto your Android device. Be especially wary if paying for apps.

Virus Infection – The Google Play Store is pretty good at weeding out viruses hidden in apps, but you simply don’t have that protection when sideloading. Ensure you have good anti-virus software.

Malware or Spyware – Although similar to a virus, malware or spyware is not generally as damaging. It is more likely to slow your device down than kill it. Again, security software is a must.

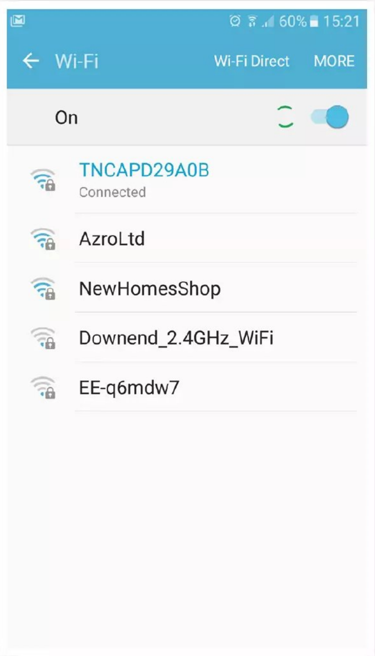
34%
Scanning Go
1523
Scanned files
2:34

Smart Home on a Budget

If you have deep pockets, it is now possible to completely transform your house into a Smart Home, with a single portable control system for everything from lights and music, to heating and security. These bespoke systems cost several thousand, and take a lot of work to install. However, if you are clever, and do some creating thinking, it is possible to create a smart home on a budget.

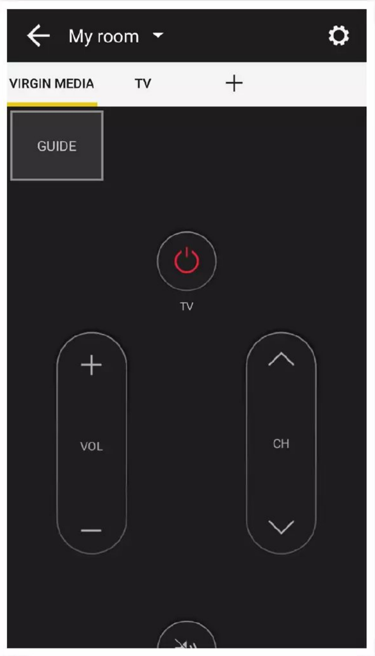
Smart Home Essentials

If you want to add Smart Home features to your home, you will need to ensure a few essentials are in place first, aside from the Smart gadgets we will look at in a moment.



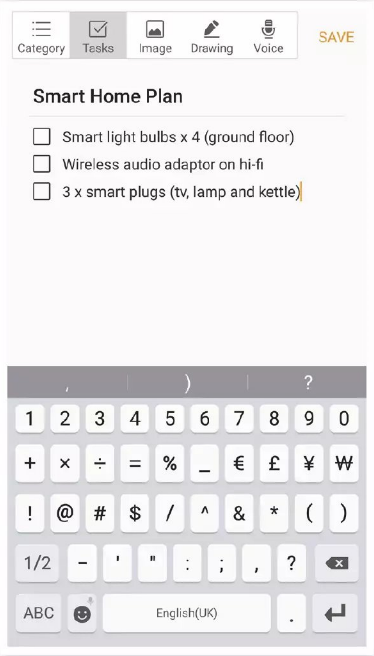
1 – Wi-Fi

Almost without exception, Smart tools and gadgets will need to connect to a Wi-Fi network to work properly. This is how the devices share information, and how they are remotely controlled. This means you need to have a fairly strong and stable Wi-Fi network set up in your house. Without a Wireless network in place, a Smart Home on a budget is just not possible.



2 – Controls

The Smart Home gadgets we will be looking at here all require a companion controller app to be installed on a phone or tablet. This can be inconvenient to have on your current phone, so ideally use an old phone or tablet as a dedicated controller (the phone or tablet doesn't need to be very powerful, but remove anything not needed for the Smart Home control).



Smart Home Plan

☐ Smart light bulbs x 4 (ground floor)
☐ Wireless audio adaptor on hi-fi
☐ 3 x smart plugs (tv, lamp and kettle)

3 – A Plan

There are limitations with this budget Smart Home setup, as you might expect. For example, it is unlikely that you will be able to replace every lightbulb with a smart lightbulb and control all of them from a single app. It is therefore important to have a plan as to what your priorities are. For example, just having smart bulbs in your lamps, not the main light fittings.

Smart Home Gadgets

Let's take a look at some of the many Smart Home gadgets available, to hopefully give you ideas for your own budget Smart Home.

Awox SmartLED 7w Bulb

Price: From £19.99 $16.49 €19.99

www.mobilefun.co.uk/.com

Perhaps the most simple Smart Home tech, these smart bulbs are affordable, reliable and can be set up to be controlled individually or as a group from a single easy-to-use app. You can control both the brightness and the colour of the bulb wirelessly.

D-Link Smart Plug

Price: From £24.99 $29.99 €29.99

www.mobilefun.co.uk/.com

The D-Link Home Smart Plug lets you turn electronic devices on or off from anywhere inside or outside your home. The smart mains adapter controls your devices through an internet connection to provide wireless control for your TVs, heaters and much more.

Transmitter & Receiver
aptX

Avantree Saturn

Price: From £39.99 $43.49 €44.99

www.mobilefun.co.uk/.com

The Avantree Saturn is both a Bluetooth receiver and transmitter allowing you to connect Bluetooth music devices to non-Bluetooth speakers or vice-versa. This means you can use your old-school CD player with your latest Bluetooth speakers and because Avantree have used the latest 'aptX' decoder the music is HD quality.

Perfect Bake Smart Baking

Price: From £44.99 $48.49 €49.99

www.mobilefun.co.uk/.com

Perfect Bake includes everything you need to achieve this, creating delicious cookies, muffins and all kinds of tantalising snacks and treats that will make your mouth water. Perfect Bake does all the measuring for you, taking any of the complication away and helping you become a master chef.

Spigen Pan & Tilt HD Camera

Price: From £75.00 $80.99 €79.99

www.mobilefun.co.uk/.com

Monitor your home from anywhere with the Wi-Fi enabled HD Camera from Spigen. Featuring two-way audio, night vision, pan and tilt controls, you can be assured of seeing the whole picture no matter what the time of day. 720P HD video monitoring with IR-Cut provides a crystal clear picture.

Samsung SmartThings

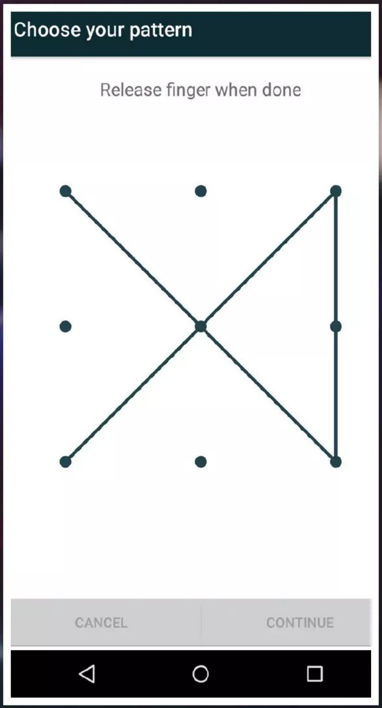
Price: From £199.99 $199.99 €199.99

www.mobilefun.co.uk/.com

The SmartThings Starter Kit lets you monitor, control and secure your home from anywhere. Including in the Starter Kit are a number of devices from the Samsung SmartThings range including the Hub, Motion Sensor, Multi Sensor,

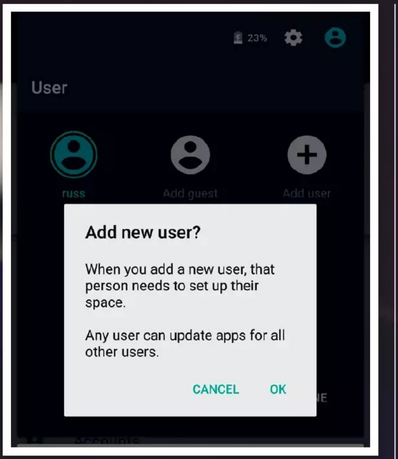
10 Android Security Tips

Gone are the days when your phone was just your phone. Now we are using our Android phones more often to store passwords, banking details, emails and other valuable information. Before you even begin adding this sort of information to your phone, you need to think about security.



1. Add a Screen Lock

It has probably been said to you before, but setting up a screen lock pattern, password or PIN is an essential security step; one which every user should make a priority as soon as their device is set up. PIN and password locks are the most secure option, but a pattern lock generally offers faster access to your device and is easier to remember for most users. If you do use using a pattern lock, at least make it complicated enough that it can't be easily guessed. Several of the more advanced Android security features will require a screen lock in place before they can even be set up, let alone used effectively.



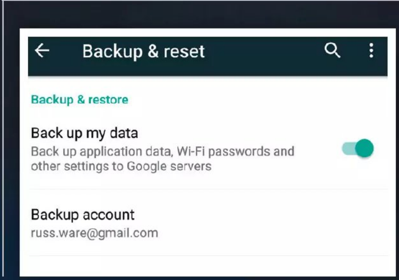
Add new user?

When you add a new user, that person needs to set up their space.

Any user can update apps for all other users.

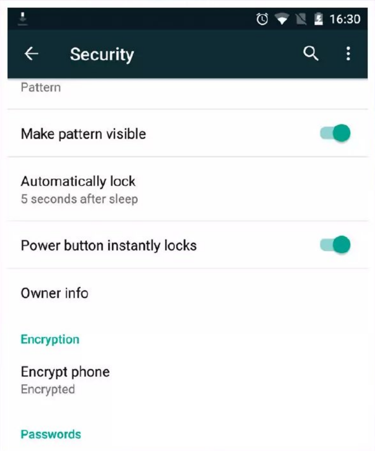
2. Set Up User Profiles

If your device is to be shared with other members of your family, take advantage of the User Profile option and give everyone their own secure area. Each user gets to have their own email account, apps and photo store, so your privacy (as well as theirs) is preserved. If you are just letting a friend or colleague use your device for a few minutes, set up a Guest Profile instead. This provides a short-term, secure account for the guest to use, without giving access to your private data.



Back up my data
Back up application data, Wi-Fi passwords and other settings to Google servers

Backup account
russ.ware@gmail.com



Make pattern visible

Automatically lock
5 seconds after sleep

Power button instantly locks

Owner info

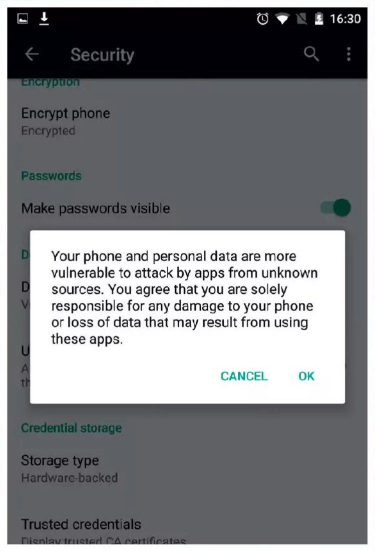
Encrypt phone
Encrypted

3. Encrypt Your Data

Encrypting the data on your device adds an extra layer of protection if your phone or tablet is lost or stolen. Encryption stores your data in a form that can only be read if you have the right credentials. You can encrypt all the data on your Android device, including your account data, app data, music and other media, and downloaded information. You can add encryption via the Security menu in Settings. On devices running Lollipop, you will be asked if you want to add an additional sign-in on boot when setting a screen lock.

4. Back Up Regularly

Regular backups should definitely be a part of your Android security setup. While having current backups doesn't actually make your device more secure, it does make losing or breaking your phone much easier to recover from. Google can easily be set to create automatic backups in Settings > Backup my Account.


16:30
Security
Encryption
Passwords
CANCEL
OK
Credential storage

Encrypt phone
Encrypted

Make passwords visible

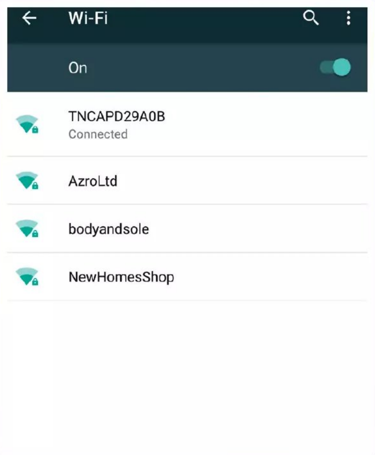
Your phone and personal data are more vulnerable to attack by apps from unknown sources. You agree that you are solely responsible for any damage to your phone or loss of data that may result from using these apps.

Storage type
Hardware-backed

Trusted credentials
Display trusted CA certificates

5. Let Google Verify Apps

All of the apps available on the Google Play Store have been checked and verified by Google. It is possible, however, to install apps from sources other than the official store, and these apps can contain harmful software. If you install apps from other sources, you can turn on app verification to make sure the apps you install are scanned for malware. Open Settings > Security and turn on Scan Device for Security Threats.



On

TNCAPD29A0B
Connected

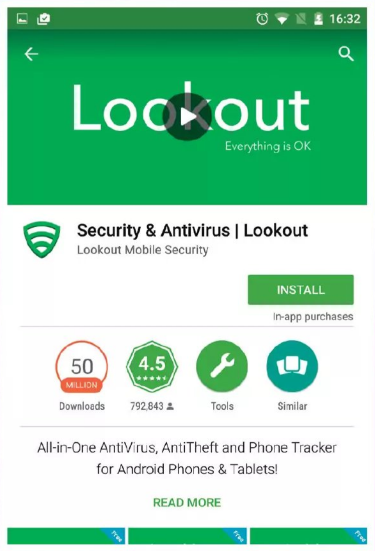
AzroLtd

bodyandsole

NewHomesShop

8. Avoid Unsecured Networks

Never join an unsecured network. This is especially true when doing business with your smartphone or tablet, but it should really be the general rule for any mobile devices. If you often work in coffee shops and restaurants, and need to connect to the Internet, only use those networks with a password. If you do have to work on a wireless network with no password, make sure you don't transmit sensitive data.

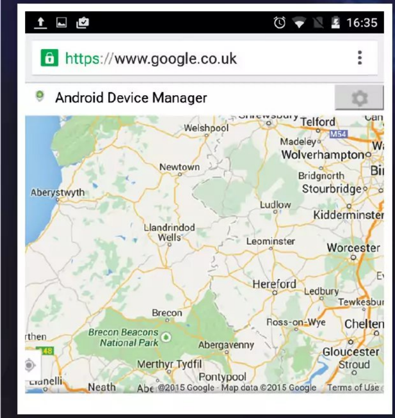

16:32
Lookout
Everything is OK
INSTALL
In-app purchases
50
MILLION
Downloads
4.5
792,843
Tools
Similar
READ MORE

Security & Antivirus | Lookout
Lookout Mobile Security

All-in-One AntiVirus, AntiTheft and Phone Tracker for Android Phones & Tablets!

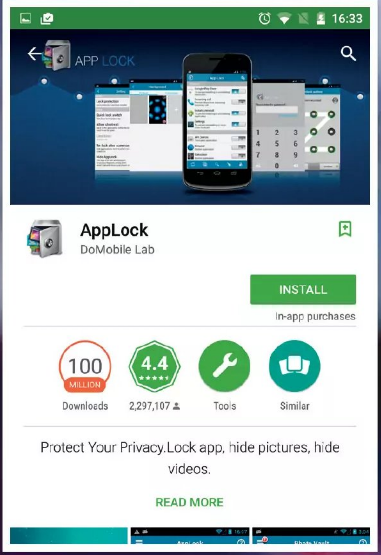
6. Install a Security App

Although Android devices provide lots of security tools right out of the box, it is still a good idea to install a reputable third-party security or anti-virus app such as 360 Security, Avast Antivirus & Security or Lookout Mobile Security. Many of these not only allow you to scan for viruses and malware, but also include real-time browser scans and performance-boosting tools. It is worth trying out a few to see which one works best for you.


16:35
https://www.google.co.uk
Android Device Manager
Telford
Welshpool
Madeley
Wolverhampton
Newtown
Bridgnorth
Stourbridge
Aberystwyth
Ludlow
Kidderminster
Llandrindod Wells
Leominster
Worcester
Hereford
Ledbury
Tewkesbu
Brecon
Ross-on-Wye
Chelten
Brecon Beacons National Park
Abergavenny
Gloucester
Stroud
Merthyr Tydfil
Pontypool
Llanelli
Neath
©2015 Google · Map data ©2015 Google
Terms of Use

9. Enable Android Device Manager

Android Device Manager comprises a set of tools which you can access through your computer browser. If you lose your Android device, you can use Android Device Manager to show its location using GPS, make it ring at full volume, lock it remotely, and wipe it remotely. Some devices will have ADM automatically enabled, while others will require you to enable it in the Security Settings. Once enabled, you can access ADM on any browser at www.google.com/android/devicemanager.


16:33
APP LOCK
INSTALL
In-app purchases
100
MILLION
Downloads
4.4
2,297,107
Tools
Similar
READ MORE

AppLock
DoMobile Lab

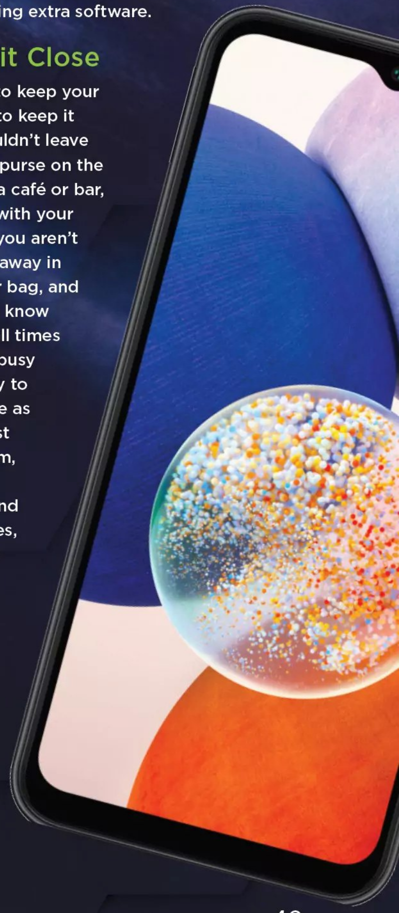
Protect Your Privacy.Lock app, hide pictures, hide videos.

7. Lock Your Apps

Locking individual apps is a secondary layer of security to prevent anyone from using your lost device if they have managed to bypass your locked Android. You can use a free app like App Lock for this purpose. The idea here is not to lock every single app in your device; just the data-sensitive ones like your Email apps or file managers. Some devices include a locked area which can be used for this purpose without installing extra software.

10. Keep it Close

The best way to keep your device safe is to keep it close. You wouldn't leave your wallet or purse on the table when in a café or bar, so don't do it with your phone. When you aren't using it, put it away in your pocket or bag, and make sure you know where it is at all times if you are in a busy place. It is easy to see your phone as a cheap, almost disposable item, largely due to carrier deals and yearly upgrades, but remember that replacing your device mid-contract can be expensive.

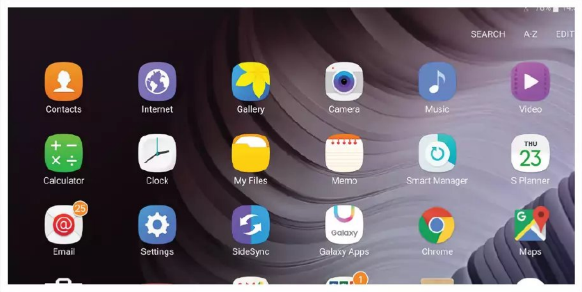


Clean Up with Smart Manager

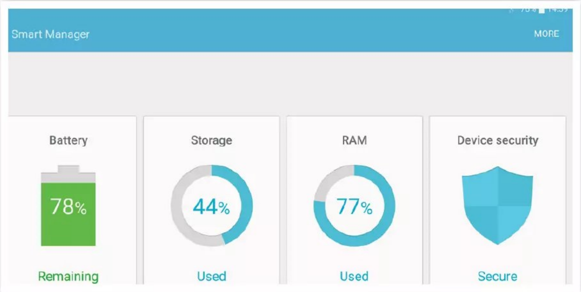
Smart Manager is a fairly new tool, pre-installed on many new devices and available as a download on the App store if not. It combines several tools and utilities into a single app interface, making it easy to quickly check things like battery level and usage, storage capacity remaining and amount of RAM being used. Like similar third-party apps (CleanMaster etc.) it provides both detailed information and one touch optimisation.

App Management

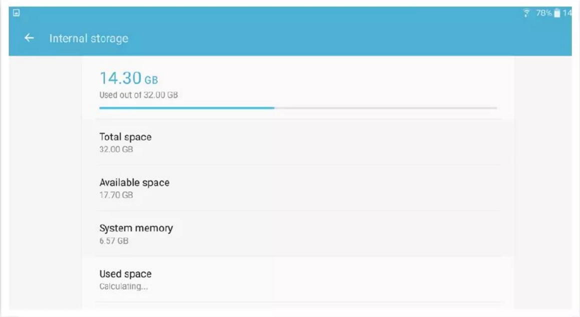
Smart Manager is a very useful tool, or collection of tools, which helps you keep your device running faster and more smoothly at the touch of a button.


SEARCH
A-Z
EDIT
Contacts
Internet
Gallery
Camera
Music
Video
Calculator
Clock
My Files
Memo
Smart Manager
S Planner
Email
Settings
SideSync
Galaxy Apps
Chrome
Maps

1 Smart Manager can be found in the main app drawer of your Android device device. As mentioned if it isn't pre-installed you should be able to download and install it through the Galaxy Apps store. If you are using a Galaxy S6, Galaxy S6 Edge, Galaxy Tab S2 or Tab S, you already have it.


Smart Manager
MORE
Battery
78%
Remaining
Storage
44%
Used
RAM
77%
Used
Device security
Secure

2 Tap the icon to open Smart Manager and you will see a fairly simple interface. The four main areas of the app are: Battery Remaining, Storage Used, RAM Used and Device Security. At the bottom of the screen you will see a button labelled "Clean All" which allows for quick device optimisation.


Internal storage

14.30 GB
Used out of 32.00 GB

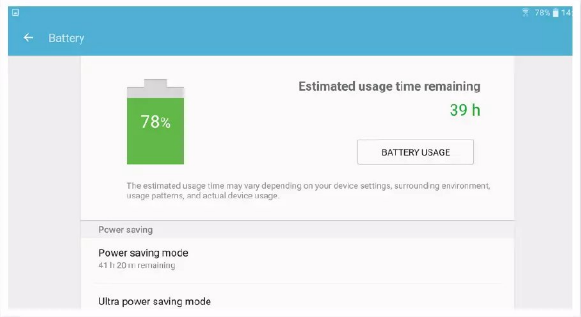
Total space
32.00 GB

Available space
17.70 GB

System memory
6.57 GB

Used space
Calculating...

3 Each of the sections, when tapped, leads to a new screen showing more detailed information and usually more optimisation options and advice. You can watch in real time as the battery drains or the RAM is used by background apps and services (if you have nothing better to do...).


Battery

78%

Estimated usage time remaining
39 h

BATTERY USAGE

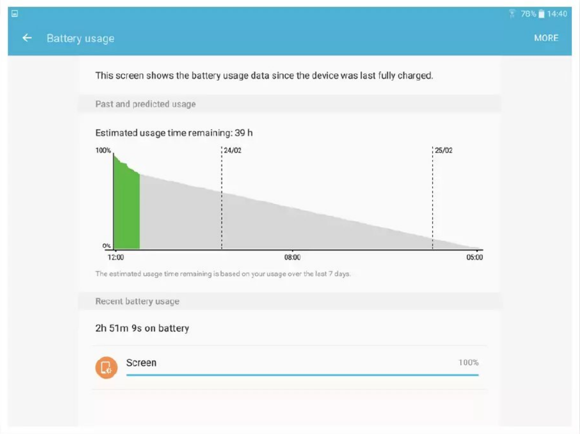
The estimated usage time may vary depending on your device settings, surrounding environment, usage patterns, and actual device usage.

Power saving

Power saving mode
41 h 20 m remaining

Ultra power saving mode

4 Tap the Battery section to see more details about battery usage. The top section of the next screen shows current battery percentage level on the left and estimated usage time remaining on the right. Estimated usage time remaining is based on an estimate and will be affected by heavy use.



This screen shows the battery usage data since the device was last fully charged.

Past and predicted usage

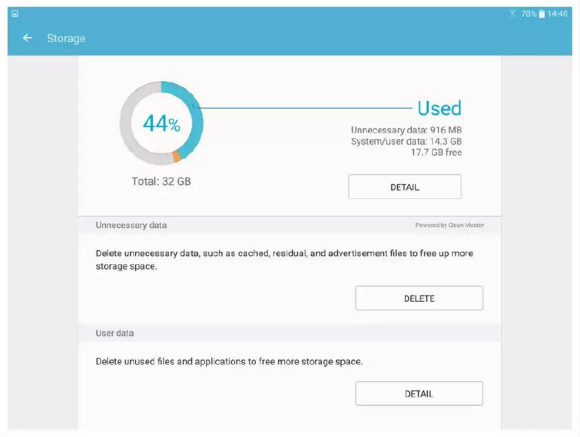
Estimated usage time remaining: 39 h

The estimated usage time remaining is based on your usage over the last 7 days.

Recent battery usage

2h 51m 9s on battery

5 Tap the "Battery Usage" button to see even more detail, including which apps or services are draining power. On this second new screen you can even tap the battery users and see advice on how to reduce usage. Go back and if App Optimisation is switched on, the number being optimised is shown.



Unnecessary data: 916 MB
System/user data: 14.3 GB
17.7 GB free

Total: 32 GB

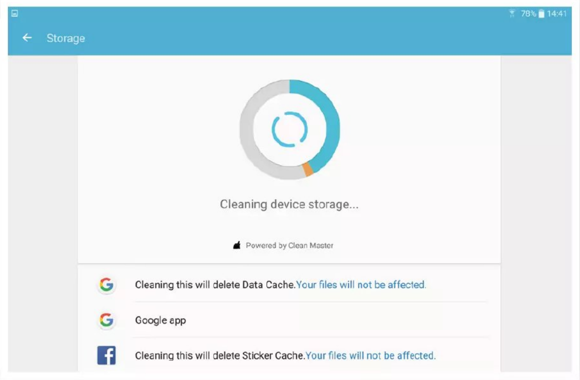
Unnecessary data

Delete unnecessary data, such as cached, residual, and advertisement files to free up more storage space.

User data

Delete unused files and applications to free more storage space.

6 Go back to the main screen and tap the Storage section. The percentage readout will update to show the current amount of used and free internal storage. You can tap the "Detail" button and your storage will be shown as a bar graph, split into various categories including Available Space and System Memory.



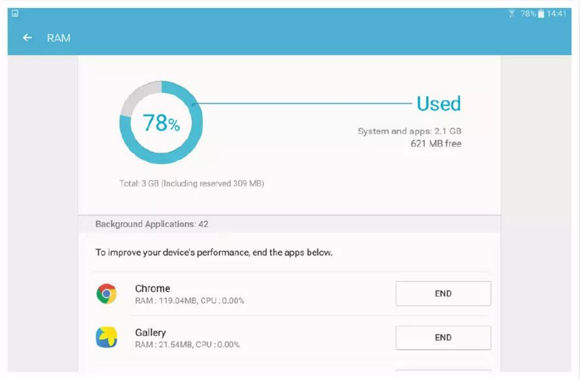
Cleaning device storage...

Cleaning this will delete Data Cache. Your files will not be affected.

Google app

Cleaning this will delete Sticker Cache. Your files will not be affected.

7 Go back to the Storage screen and you will see a "Delete" button. Tap this to quickly delete unnecessary data, including residual and advertising files. Depending on your device usage this could clean out several hundred MB of unwanted data and files. The full amount is shown when deleted.



System and apps: 2.1 GB
621 MB free

Total: 3 GB (Including reserved 309 MB)

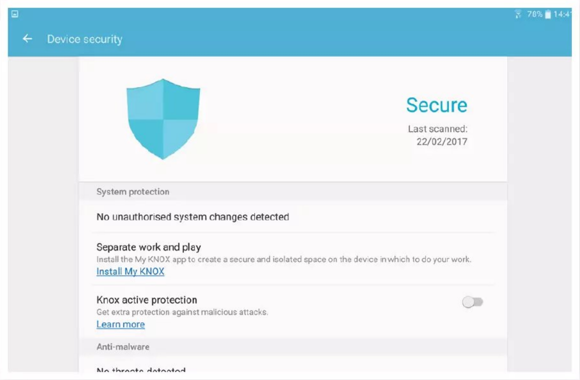
Background Applications: 42

To improve your device's performance, end the apps below.

Chrome
RAM : 119.04MB, CPU : 0.00%

Gallery
RAM : 21.54MB, CPU : 0.00%

8 Go back and tap the RAM section. You can see how much RAM (Random Access Memory) is being used at this moment. RAM is important to the smooth running of your device as it helps keep apps and services ready to use. Tap "End" next to any apps you don't need running to free up RAM.



Last scanned:
22/02/2017

System protection

No unauthorised system changes detected

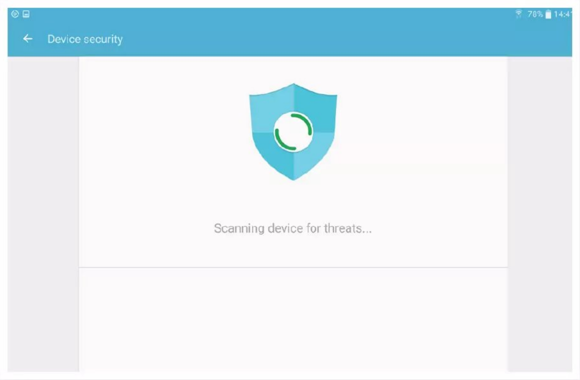
Separate work and play
Install the My KNOX app to create a secure and isolated space on the device in which to do your work.

Knox active protection
Get extra protection against malicious attacks.

Anti-malware

No threats detected

9 The First time you use Smart Manager, Device Security may not be activated. Tap the Security section and agree to the terms to activate it; you can also do this though Settings. Hopefully it will now show your device is "Secure". You can scan the device for threats using the button at the bottom.

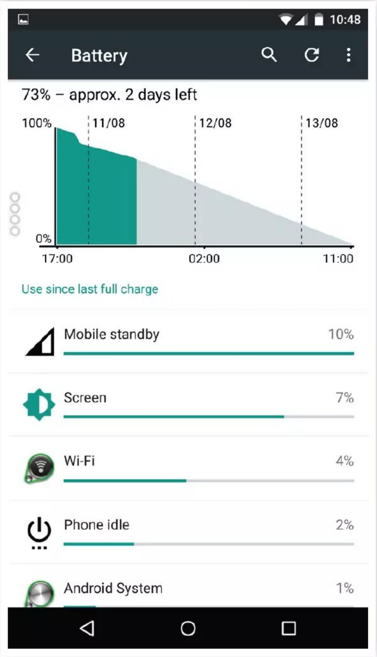


Scanning device for threats...

10 You can also activate Knox Active Protection for an extra layer of device security. Knox Active Protection, or KAP, uses both Real-time Kernel Protection (RKP) and DM Verity, a feature that provides integrity checking for system code and data, to protect your device data.

10 Common Problems Solved

Android has been blessedly free from any major problems for a long time, as the software continually improves and Google seems happy to listen to comments and suggestions from its massive user base. Where problems can still arise, however, is when the excellent software is not paired with excellent hardware. Let's take a look at some of the most common Android software and hardware problems, and ways they can be solved.



73% – approx. 2 days left

Use since last full charge

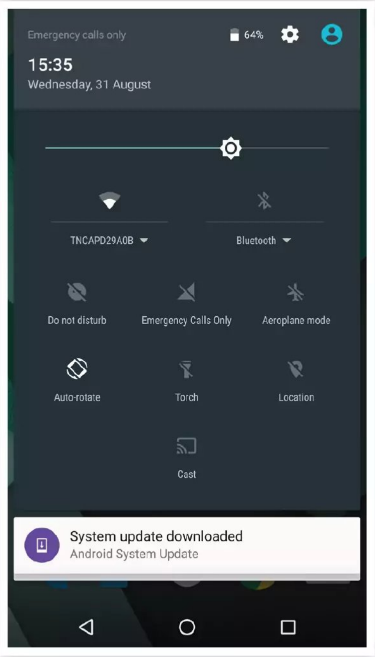
Mobile standby 10%

Screen 7%

Wi-Fi 4%

Phone idle 2%

Android System 1%



Emergency calls only

64%

15:35
Wednesday, 31 August

TNCAPD29A0B

Bluetooth

Do not disturb

Emergency Calls Only

Aeroplane mode

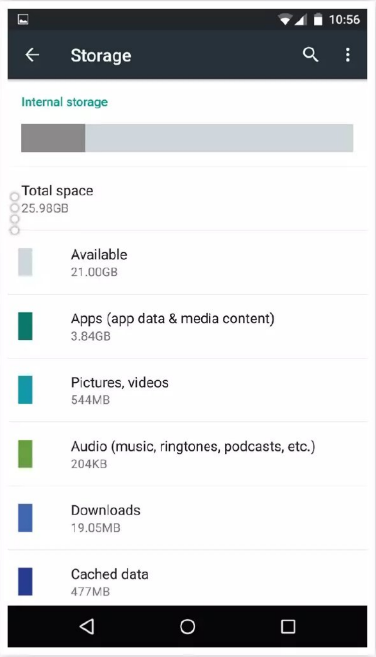
Auto-rotate

Torch

Location

Cast

System update downloaded
Android System Update



Internal storage

Total space
25.98GB

Available
21.00GB

Apps (app data & media content)
3.84GB

Pictures, videos
544MB

Audio (music, ringtones, podcasts, etc.)
204KB

Downloads
19.05MB

Cached data
477MB

1. Battery Drain

The easiest way to quickly reduce battery drain is to switch off a few power hungry features such as GPS (location) and Bluetooth, reduce the screen brightness and restart your device. This should see an immediate improvement in battery life. Some devices also now include battery saver modes, allowing you to reduce functionality for a short term increase in battery life. These are, however, generally designed as emergency measures, not day to day solutions.

You can read more about way to save battery power elsewhere in this book, and the application of a few or even one of these measures should help. If you are still having problems lasting the day on a full charge, then consider buying a new battery (if your device allows battery replacement).

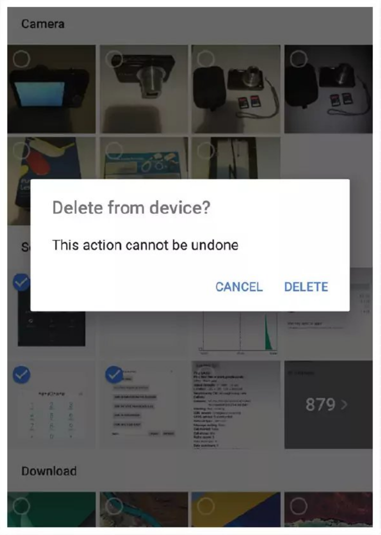
Lollipop offers users a detailed look at what is using the battery power on your device. Just look in Settings > Battery, and tap on each entry in the usage list to see possible fixes.

2. Lack of Storage

The easiest way to solve a lack of storage space on your phone or tablet is, obviously, to remove some old content such as apps, photos or videos. You can easily remove apps by going to Settings > Applications, selecting the app from the list and tapping the "Uninstall" button. You can also uninstall apps by tapping and holding on the icon in the main app drawer, and then dragging the app icon up to the uninstall icon that appears.

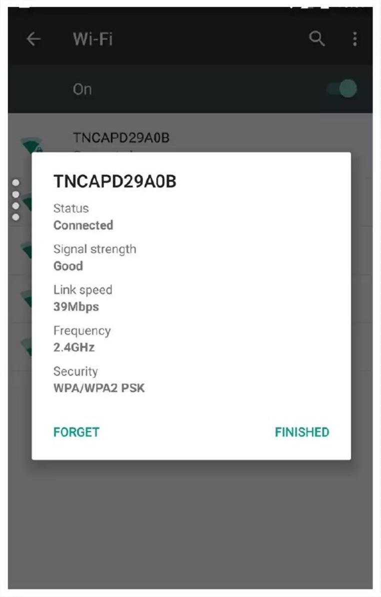
Photos and videos can be deleted from within the Gallery or Photos app, depending on your device. In both cases, tap and hold on the first image you want to delete, then select any others using the selection screen. Once you have all of the photos and videos selected that you want to delete, tap the Trash button or select “Delete”.

Some devices, particularly phones, will allow you to expand storage space by inserting a MicroSD card. There may already be a MicroSD installed in your device, but it is unlikely to the be the largest capacity the device can work with (check the manufacturer’s instructions or website for maximum MicroSD capacity). This fairly cheap option could double or even treble the available storage space on your device.



Delete from device?

This action cannot be undone



TNCAPD29A0B

Status
Connected

Signal strength
Good

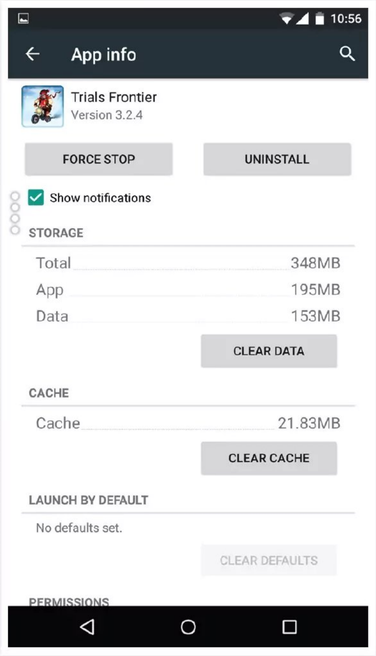
Link speed
39Mbps

Frequency
2.4GHz

Security
WPA/WPA2 PSK

3. User Interface Lag

The main thing which will most likely be causing your phone to slow down and lag is a full or almost full internal storage drive. You can start fixing this by deleting unused apps and photos, or moving them to the cloud or a microSD card. Additionally, you should limit the use of live wallpapers and close open apps that you are no longer using. Another good thing to do is to delete app cache.



Trials Frontier
Version 3.2.4

☑ Show notifications

STORAGE

Total 348MB
App 195MB
Data 153MB

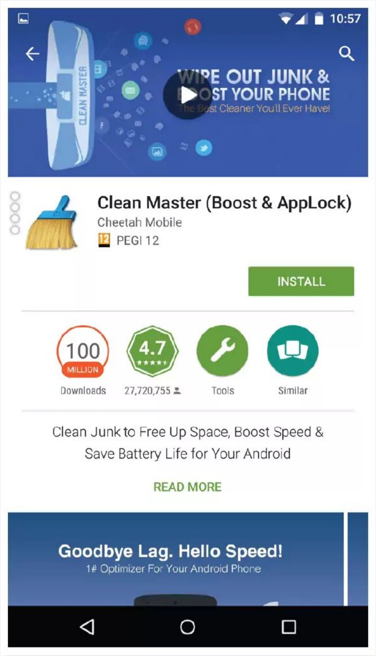
CACHE

Cache 21.83MB

LAUNCH BY DEFAULT

No defaults set.

1 Any app’s cached data can be deleted be going to Settings, clicking on Apps, selecting an app from the main list, and then choosing the “Clear cache” option.



WIPE OUT JUNK & BOOST YOUR PHONE
The Best Cleaner You'll Ever Have!

Clean Master (Boost & AppLock)
Cheetah Mobile
PEGI 12

Clean Junk to Free Up Space, Boost Speed & Save Battery Life for Your Android

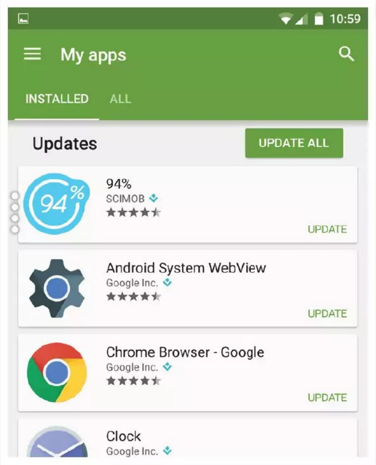
Goodbye Lag. Hello Speed!
1# Optimizer For Your Android Phone

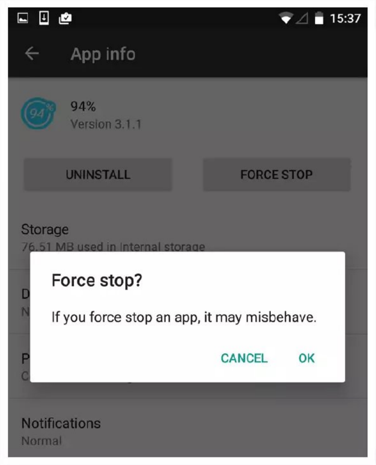
2 Programs such as App Cache Cleaner and Clean Master, both of which are available for free from the Google Play store, can also be used to automate the cache cleaning process.

4. Wi-Fi Connection

Anytime your device needs to connect to an external device (such as a Wi-Fi router or Bluetooth peripheral), the chances of encountering problems is increased. If you are having problems with your Wi-Fi connection, the first step to take is to reboot the device that’s having trouble. You should also try rebooting the router it’s connected to if that hasn’t been restarted recently. Follow manufacturer instructions for rebooting your router. If that doesn’t work, make sure that the router’s firmware is up to date. This process will vary based on make and model, Instructions likely came in the router’s box though they can also be found online.

If those steps do not work, you need to look at the Android device Wi-Fi settings. Once there, force the device to forget the Wi-Fi network. Simply tap on the desired network and a menu will pop-up. Tap “Forget network”. Select that and then re-enter the password to connect again. If that doesn’t work, try changing the frequency in the Advanced menu. Go to Wi-Fi frequency band and play around with the different settings. It should be set to Automatic by default. If none of those fix the Android Wi-Fi problems, try updating applications or entering Safe Mode to try and single out problem apps. If that doesn’t work, it might be time to factory reset the device.


10:59
My apps
INSTALLED
ALL
Updates
UPDATE ALL
94%
SCIMOB
UPDATE
Android System WebView
Google Inc.
UPDATE
Chrome Browser - Google
Google Inc.
UPDATE
Clock
Google Inc.


15:37
App info
94%
Version 3.1.1
UNINSTALL
FORCE STOP
Storage
76.51 MB used in internal storage
Force stop?
CANCEL
OK
Notifications
Normal

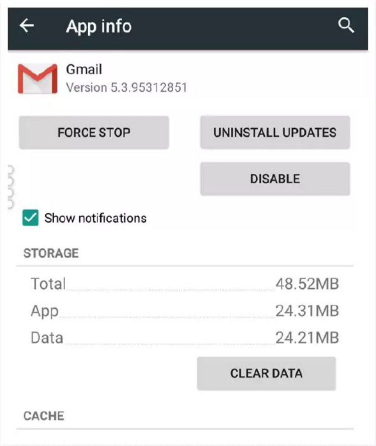
If you force stop an app, it may misbehave.

5. Apps Crashing

If apps are consistently crashing during operation, the first thing to do is to check for any available updates for those apps. You can do this by opening the Google Play Store app, tapping the Menu button and selecting “My apps”. Here you will see a list of all apps which have updates available, and be able to tap to update.

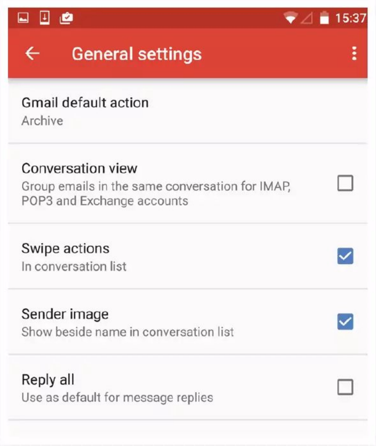
If there is no update available for the app that is crashing, it is worth either uninstalling the app and then reinstalling it. Alternatively, open the main settings, click “Applications” and find the problem app in the list. On the app info screen, clear both the app data and the app cache. Tap “Force Stop”. Now head back to the home screen or main app drawer and open the app to see if the crashes have stopped.

If the problem persists even after these steps, there may simply be a problem with the app (rather than a problem with your device). If you really want to dig deep, install a System Monitor app (System Monitor Lite is great for this) and see if the app is showing any resource spikes. If so, this could be causing the crashing, and indicates a problem with the software.


App info
Gmail
Version 5.3.95312851
FORCE STOP
UNINSTALL UPDATES
DISABLE
STORAGE
CLEAR DATA
CACHE

☑ Show notifications

Total 48.52MB
App 24.31MB
Data 24.21MB


15:37
General settings

Gmail default action
Archive

Conversation view ☐
Group emails in the same conversation for IMAP, POP3 and Exchange accounts

Swipe actions ☑
In conversation list

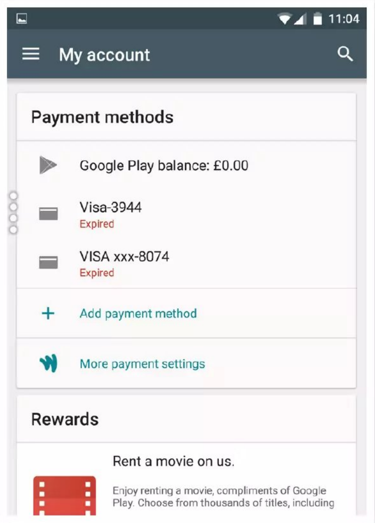
Sender image ☑
Show beside name in conversation list

Reply all ☐
Use as default for message replies

6. Sync Errors

If it seems that an app such as Gmail or Dropbox isn’t syncing properly, the first thing to do is to check that the app in question is working and fully up to date. You can check for updates for apps by opening the Google Play Store app, clicking “My Apps” in the menu and checking the update list. Apply any available updates and check to see if that fixes the sync problem.

If not, you can try clearing the app cache and data. This will usually mean that you will have to sign in to the app again, but it should fix persistent sync problems. Open the apps in question and check that the individual sync settings are correct. You can also check sync settings for all of your Google apps, as well as things like Facebook and Instagram, in the Accounts section of the main settings.


11:04
My account
Payment methods
Add payment method
More payment settings
Rewards

Google Play balance: £0.00
Visa-3944
Expired
VISA xxx-8074
Expired

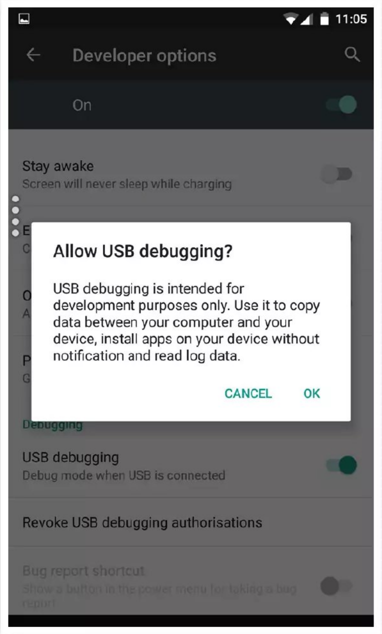
Rent a movie on us.
Enjoy renting a movie, compliments of Google Play. Choose from thousands of titles, including

7. Play Store Problems

Although it is thankfully fairly uncommon, some apps on the Play Store are only compatible with specific types of Android device. View the Play Store on your Android tablet and you will see a subtly different selection of apps compared to when you view the store on your Android phone. Generally, apps which aren’t compatible with your device won’t even be displayed. This is not the case when viewing the Play Store on a computer. Here you will see all apps, but will need to check the compatibility notice just below the Install button.

If you receive a “Download unsuccessful” message when attempting to download an app, try the following troubleshooting steps to resolve the issue:

- For paid applications, confirm your credit card information is up to date by signing in to your Google Wallet account.
- Clear the cache of the Google Play Store app(visit Settings > Applications > Clear cache).
- Restart your tablet, then try downloading the app again.
- Confirm there is connectivity to either a wireless or cellular network on your device, and contact your mobile service provider if you aren’t connected.
- Ensure there’s enough space on your tablet for the app to install.
- If none of the above steps work, try remounting your SD card, if your tablet has one. Tap Menu > Settings > Storage > Unmount SD card; then remount the SD card from the same menu by selecting Remount SD card, or restart the device if the remount option isn’t available.



11:05

Developer options

On

Stay awake

Screen will never sleep while charging

Allow USB debugging?

USB debugging is intended for development purposes only. Use it to copy data between your computer and your device, install apps on your device without notification and read log data.

Debugging

USB debugging

Debug mode when USB is connected

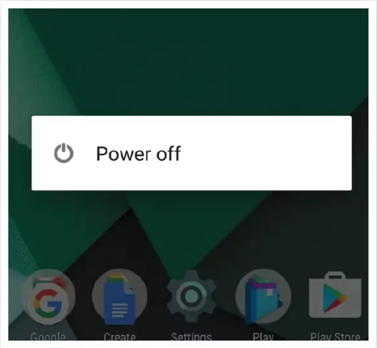
Revoke USB debugging authorisations

Bug report shortcut

Show a button in the power menu for taking a bug report

8. PC Connection Fails

Even though Android devices are (in my opinion) almost trouble-free, some of you (in most cases users of Windows) report USB connection problems. there are a few different symptoms of Android USB connection problems. The most often problem is that you can't transfer files between your device and your computer or manage your device through your computer. If you are experiencing any problems connecting your Android device to your PC, these are the steps you should follow.



Restart Your Device and PC

If you've been using your computer or Android phone for a long time without restarting, they may be simply overloaded. That's why the first thing to do is to restart your computer and then restart your Android phone.

Update Your Android Device

Sometimes there may be some bugs in the software and updating your Android version may indeed help. This is particularly true if you are using an older version of Android with a new version (8.1 or 10) of Windows.

Update Your PC

Sometimes outdated system (most often Windows) will not recognize any Android device (or any USB device). That's why it's always a good idea to update your system, particularly the USB drivers. Remember not to install too many updates at the same time (not more than two or three).

Try Debug Mode

This is the mode intended for developers. It allows you to directly access your phone, transfer and install apps without notification. To activate debug mode, go to Settings > Developer options > and check USB debugging. Plug in your device. If Developer options aren't unlocked on your device, open Settings > About Device and tap the "Build Number" heading 10 times.

New USB Cable

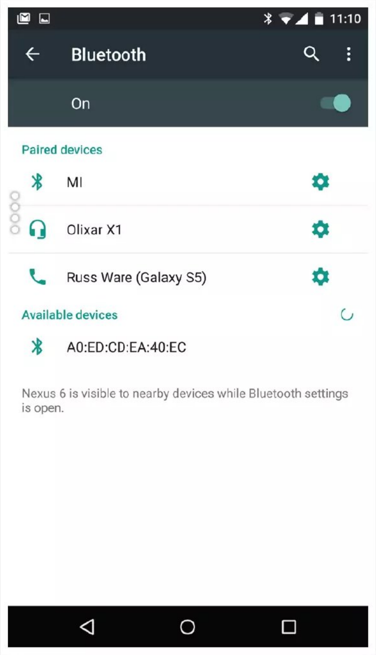
Android USB cables will undoubtedly become damaged or worn over time, so it is certainly worth trying to connect using a different cable if you have one available. If not, you can buy replacement Android USB cables online or in electrical stores for little money.

9. SD Card Unrecognised

This can potentially happen at any time, even with a fairly new SD Card. Try formatting the SD card from within Android. This solves some of the issues with SD cards, and if you haven't tried it yet, it is worth attempting.

To format an Android microSD card, go to Settings > Storage and scroll down to the bottom and select "Format SD card". Then select "Format SD card" again. If this fails, you will need to connect the SD card to a PC with a card reader. If your files aren't readable after connecting to a PC, you may have more luck using data recovery software.

micro SD HC I 16 GB
micro SD HC I 16 GB



11:10

Bluetooth

On

Paired devices

MI

Olixar X1

Russ Ware (Galaxy S5)

Available devices

A0:ED:CD:EA:40:EC

Nexus 6 is visible to nearby devices while Bluetooth settings is open.

10. Bluetooth Connection

If you are dealing with Android 5.1.1 Bluetooth issues, first try switching the Bluetooth off and on. This is a simple fix but it is known to work for many users. After that, if the problem persists, try clearing the cache on Bluetooth Share. To do this, head into Settings > Apps > Scroll over to All > Select Bluetooth Share > Clear Cache. After doing this, power down the device and boot back up.

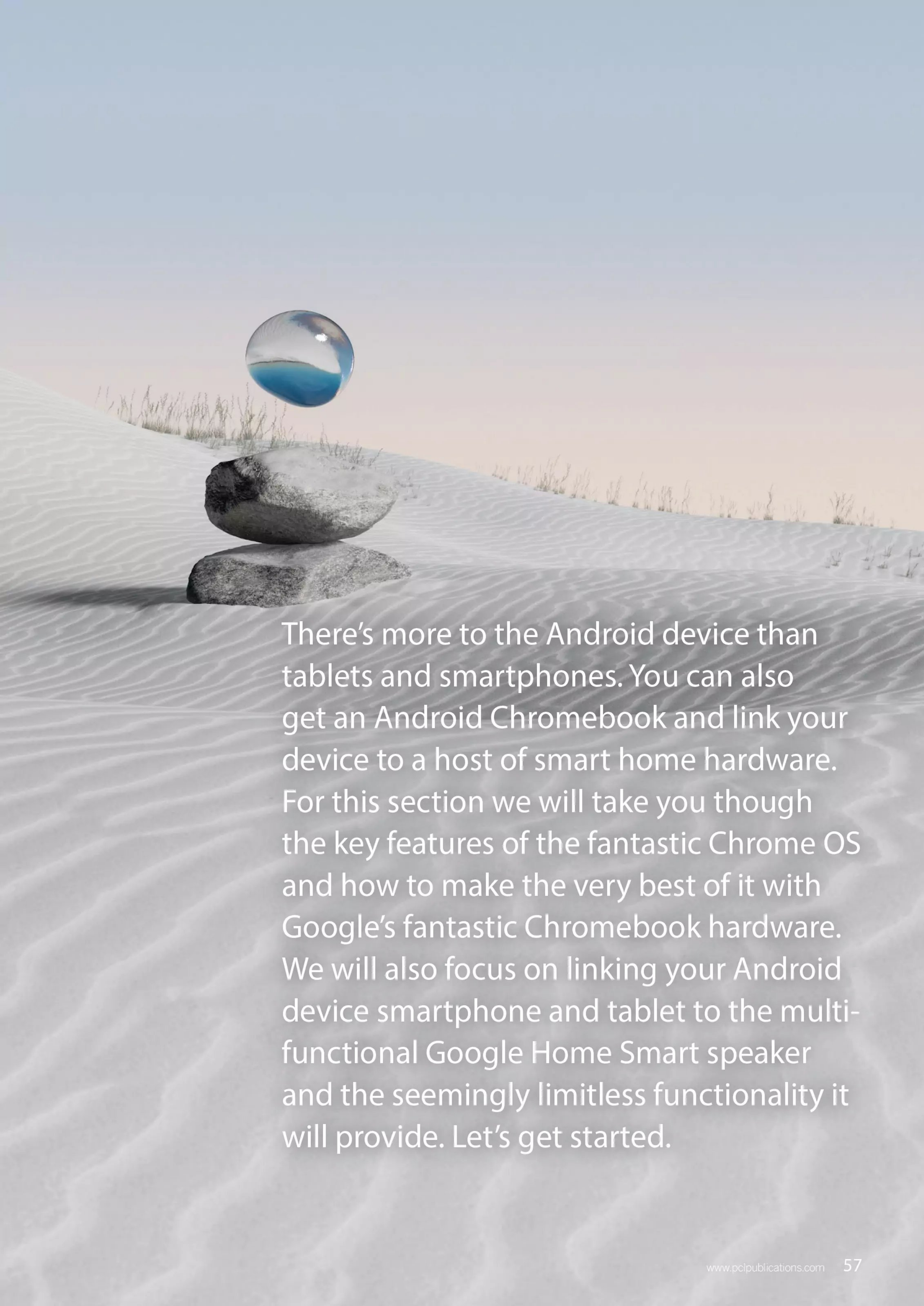
You can also try to Clear Data from the same screen. This will cause the Android device to forget all known Bluetooth devices, and allow you to essentially start scanning for them from scratch.

If none of the aforementioned fixes work, try booting into Safe Mode. To do this:

1. Ensure your device's screen is on, then press & hold the Power button.
2. Touch & hold the Power off option in the dialogue box.
3. Touch OK in the following dialogue to start safe mode.

Users trying to connect to Bluetooth in a car will need to consult the car's manual to reset the car's Bluetooth connection, as the process is going to be different for each make and model. Once that connection has been reset and the connection's been forgotten on the device, try reconnecting.

Additional Devices & Hardware



There's more to the Android device than tablets and smartphones. You can also get an Android Chromebook and link your device to a host of smart home hardware. For this section we will take you though the key features of the fantastic Chrome OS and how to make the very best of it with Google's fantastic Chromebook hardware. We will also focus on linking your Android device smartphone and tablet to the multi-functional Google Home Smart speaker and the seemingly limitless functionality it will provide. Let's get started.

What is a Chromebook?

When is a laptop not a laptop? When it's a Chromebook! Confused? Don't worry, technology has a habit of introducing confusing terms and elements, but once you've finished reading the following, you'll know the difference.

The Chromebook

Without beating around the bush too much, and in very basic terms, a Chromebook is a laptop that runs Google's Chrome OS (Operating System). There can be subtle hardware differences between a laptop that is installed with Windows 10 or 11, and even a MacBook with the latest macOS, but essentially that's all there is to it.

The first Chromebooks were commercially sold in June 2011, with several different models from laptop manufacturers Samsung and Acer, in partnership with Google. From then, the humble Chromebook has evolved and is now as widespread as any other OS-independent computing device; in fact, Chromebooks outsold Apple MacBooks during the first lockdown in the Covid-19 pandemic of 2020.

There are also different Chromebook variants. There's a desktop variant, called the Chromebox, which is more of a traditional mini-PC type device that runs Chrome OS. This you'll hook up to a monitor, keyboard and so on in the same way you would a normal desktop computer. There's an all-in-one model, called a Chromebase, which integrates the Chrome OS into a monitor complete with webcam, memory, storage and such – much in the similar vein as an Apple iMac. And finally, there's a dongle-based variant, which plugs directly into a TV or monitor's HDMI port – with power supplied via a USB port – providing you with access to Chrome OS. This variant, as you can imagine, is similar to the ROKU TV stick, or Now TV Smartsticks. By the way, the Chromecast doesn't run Chrome OS, so on paper it's not really classed as a Chromebook variant, in case you were wondering.

Hardware

One of the main differences between a Windows laptop, or even a MacBook, and a Chromebook is the hardware involved. Traditionally, Chromebooks tend to be less powerful than a Windows laptop, in terms of processing (CPU) power, the amount of memory (RAM) installed, and the amount of storage (Hard Drive space available).

Why, you may ask, well simply put, the Chrome OS that runs on a Chromebook requires significantly less hardware resources than Windows 10 or 11, or macOS. This of course means that a Chromebook can get away with using less processing power and other system resources, which in turn means that a manufacturer can get away with producing a device that doesn't utilise the latest and most powerful technology – so the cost is, in general, less than a equally matched Windows laptop.

However, there are some instances where this isn't the case. More recent Chromebooks, developed by some manufacturers, are more in line with Windows laptops in terms of power. There are Chromebooks that use the latest generation Intel i7 processors, up to 16GB of memory, and many gigabytes of storage. Naturally, as with most computing hardware, the more system resources you have to hand, the better overall experience you'll have when working with the installed operating system and any apps or programs you use. These are the more extreme models, but as hardware naturally drops in price, expect to see more powerful models appearing as time moves on.

Working Online

One of the most notable features of a Chromebook, due to Chrome OS, is that its main functionality is conducted online. An always online element is needed to get the most from a Chromebook, as Chrome OS itself is based on the Chrome browser, so most everything you do on a Chromebook is done online.

This explains a Chromebook's usual lack of on-board storage. Where a traditional Windows laptop or MacBook could have a terabyte or more of available storage, a Chromebook can get away with as little as 32GB. The main operating system is stored on the Chromebook's internal storage, along with any installed apps, and something you may be working on, but the vast majority of the Chromebook's use will be via cloud storage and online functionality.

For example, you won't be installing the full Microsoft Office suite on a Chromebook. There are free, open-source Office-like productivity apps available, but for those who need an actual MS Office experience, you'll be using Microsoft's online version of its productivity suite.

Advanced photo and video editing duties will require the use of a Windows laptop or MacBook, too. Yes, there are photo and video editing and manipulation apps available for the Chromebook, but they aren't nearly as powerful as what's available for the aforementioned systems. Plus, Chromebooks won't, in general, offer the same graphical power needed for higher-end editing.

Gaming is another element that may not be as you expect on a Chromebook. Again, due to a lack in gaming hardware performance, and the fact that many games are Windows-developed, you won't be able to enjoy the latest releases. But, with a Chromebook, you are able to enjoy the latest game streaming services – such as Google Stadia or Xbox Cloud Gaming – and since Chrome OS is also able to use some Android apps successfully, you can enjoy a wealth of Android-based gaming entertainment.

Despite all that, Google has improved Chrome OS's need to constantly rely on an always-on internet connection. There are many aspects of the OS now that mean you can still use most of the Chromebook's functionality offline. So those times when the internet goes down, or you're on a busy commute and unable to connect, you won't be completely scuppered.

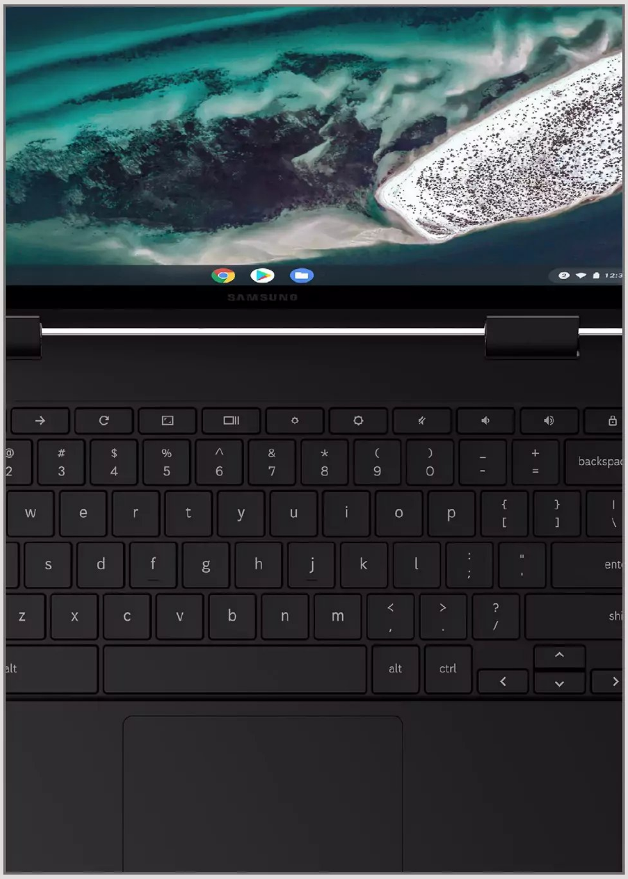
What is a Chromebook good for?

While some of the above many cast a Chromebook in a less than positive light, it's worth mentioning that there's so much you can do with a Chromebook.

As we mentioned earlier, Chromebooks outsold MacBooks in 2020, during the pandemic. This is due mainly to the fact that Chromebooks are cheaper, they're used frequently in schools and colleges (so students at home are used to how they work), and most everything we tend to do, we do online.

For example, working remotely: we access our work's server, get the files we need, create new ones or edit old ones, connect to and conduct meetings, send emails, update calendars, use spreadsheets… and so on. All of which are done online, and most of which are done using Google's own inherent applications. Even if the company you work for doesn't use any specific Google apps, they often provide remote access to Microsoft Office apps, which also include Teams, SharePoint, and One Drive. All this can be done via a Chromebook.

This makes a Chromebook both an effective work and educational tool. And thanks to its low price and low power use, also quite a cost-effective device for every member of the family.



WHY DOESN'T A CHROMEBOOK HAVE ANY STORAGE?

Many people will naturally require the more power, and functionality of a Windows laptop or MacBook. Tasks such as video and image editing, even gaming, and the like are going to be better overall on a more traditional laptop device. If though your needs aren't as specific, then a Chromebook could be the ideal device.

An effective approach to seeing if a Chromebook is the right choice of device for you is to make a quick summary of what you use a computer for, and what you may need in the foreseeable future. Take a moment to slowly go through the steps of your everyday tasks: logging into work, looking at videos and images, even going through social media. If a high proportion of these tasks, or even all of them, can be done via a browser, then a Chromebook is the ideal device companion.

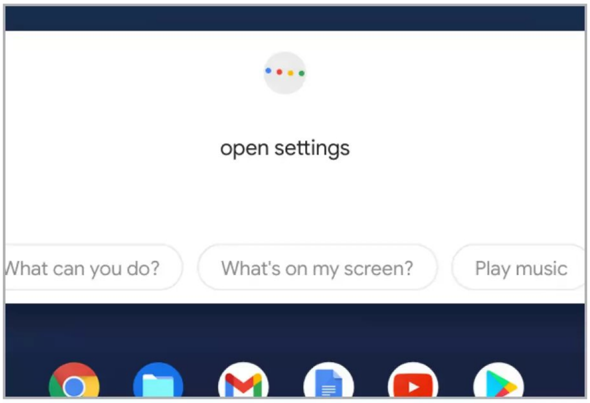
If a high percentage of what you do can be done via the browser, do some research into the remaining tasks that exist outside of the browser. See if there are apps available via the Google Play Store that will do the same thing, or if you use a specific app, check with its product webpage to see if the company has developed a Chrome OS version of the app you use. If all the boxes are ticked, then get yourself a Chromebook.

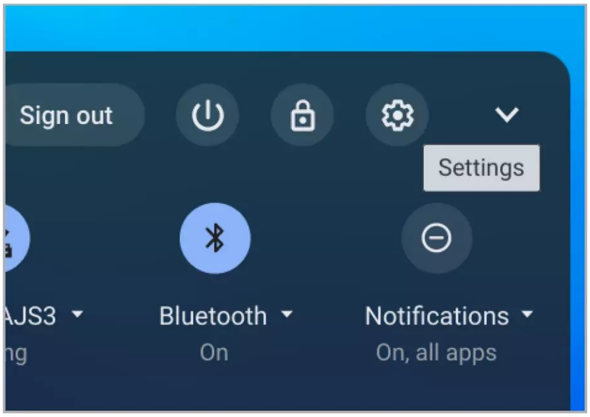
Personalising Chrome OS

Personalising your Chromebook's desktop, and the way it behaves, is something only you can do. However, within the following pages we'll look at some of the key changes you can apply to make Chrome OS your own on your Chromebook.

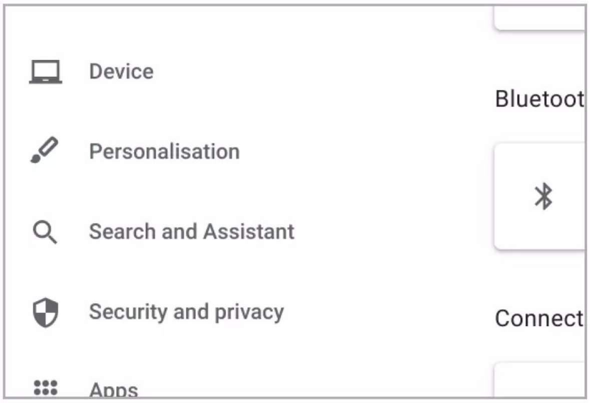
How to Access The Chrome OS Settings

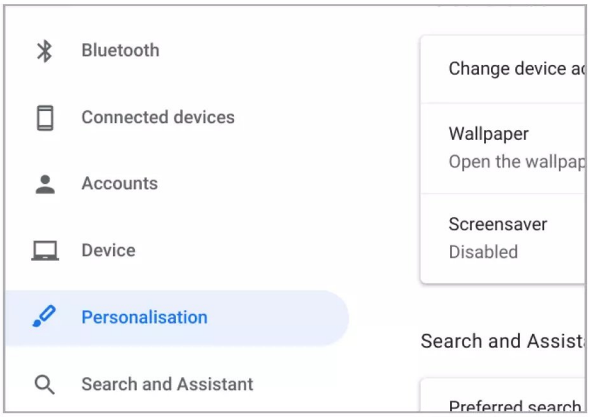
You can accomplish most of the main personalisation of Chrome OS from within the, wait for it… Personalisation section in the Settings menu. You can get to the Settings page by one of two ways:


open settings
What can you do?
What's on my screen?
Play music


Sign out
Settings
AJS3
ng
Bluetooth
On
Notifications
On, all apps

To start simple say 'Hey Google, open settings' in range of your device. Providing you've got the Android device Chromebook plugged into a power source and your battery is live, the Google Assistant will automatically open the main Settings Page for you, as shown below. Alternatively click on the power, Wifi and time icon in the bottom-right of the desktop. When the information menu opens, look to the cog icon in the top row, and click it. Either method will take you to the Settings page. In here are all manner of tweaks and adjustments.

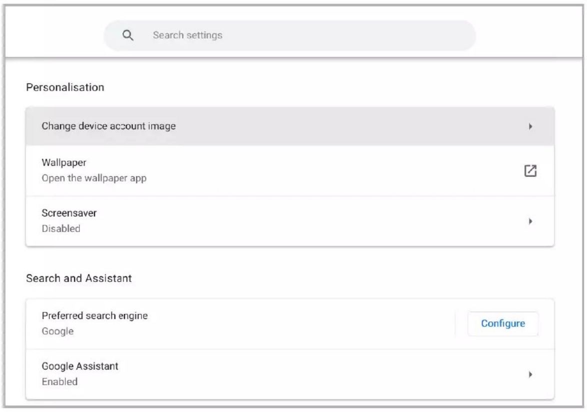

Device
Personalisation
Search and Assistant
Security and privacy
Apps
Bluetoot
Connect


Bluetooth
Connected devices
Accounts
Device
Personalisation
Search and Assistant
Change device ac
Wallpaper
Open the wallpap
Screensaver
Disabled
Search and Assist
Preferred search

Here you can make alterations to the core of Chrome OS and your experience when using it. Use it with caution, though. While nothing too bad can come from most of these settings, some could cause you problems, and others will wipe your account off the Chromebook for good. What you need to do now is look to the left-hand pane to locate Personalisation. Click on the Personalisation title, and the main page will change its display. Now let's have a look through what's available within here.

Change Device Account Image

You'll probably want to change your Google account image. If you're new to Google, then you'll likely just have a letter, or even a solid colour. But you can change it to whatever you want – within reason, of course.



Personalisation

Change device account image

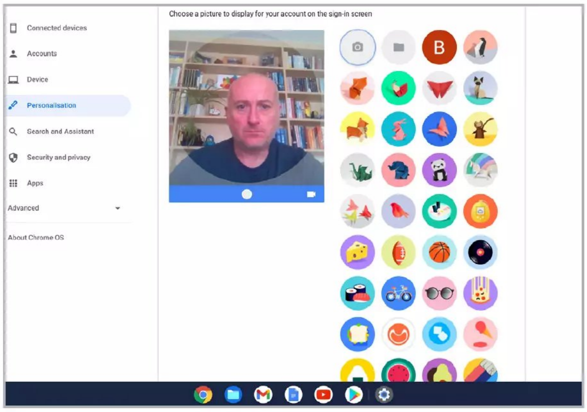
Wallpaper
Open the wallpaper app

Screensaver
Disabled

Search and Assistant

Preferred search engine
Google

Google Assistant
Enabled

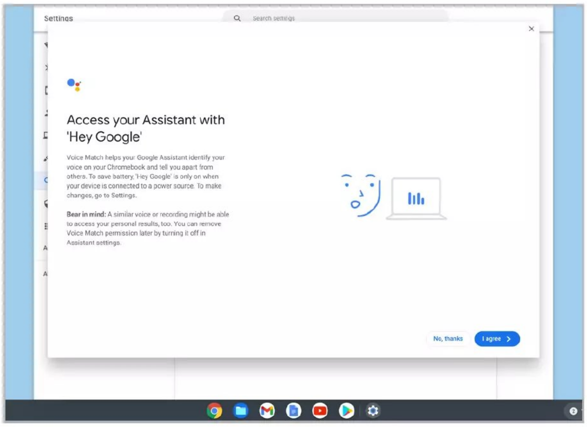


Choose a picture to display for your account on the sign-in screen

The first step is to click the top option within the Personalisation page: Change Device Account Image. This will change the display of the main panel. You can click any of the default images, which will change the main, large image that's displayed next to them. However, if you want something more personal, click the Camera icon. This activates the Chromebook webcam, and you can take a picture of yourself. As you'll see from the new display, there's a lot you can opt for in terms of having a new account image. You can choose anything from a cartoon graphic of an animal, through to your own unique image. Alternatively, you can click the Folder icon (next to the webcam option), and choose an image file you may already have stored on your Google Drive, or stored as an attachment to an email. You may need to download the image to the Downloads folder in Chrome OS before being able to add it as the Account Image, however. When you're done, click on the left-pointing arrow above the image, to return to the main Personalisation page again.

Search and Assistant

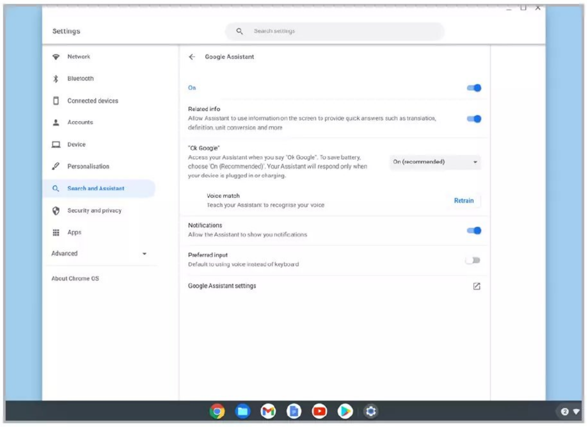
You can opt to choose your default search engine, and further improve, or retrain the voice recognition of the Google Assistant.



Access your Assistant with 'Hey Google'

Voice Match helps your Google Assistant identify your voice on your Chromebook and tell you apart from others. To save battery, 'Hey Google' is only on when your device is connected to a power source. To make changes, go to Settings.

Bear in mind: A similar voice or recording might be able to access your personal results, too. You can remove Voice Match permission later by turning it off in Assistant settings.



Google Assistant

On

Related info
Allow Assistant to use information on the screen to provide quick answers such as translation, definition, unit conversion and more

"Ok Google"
Access your Assistant when you say "Ok Google". To save battery, choose 'On (Recommended)'. Your Assistant will respond only when your device is plugged in or charging.
On (recommended)

Voice match
Teach your Assistant to recognise your voice

Notifications
Allow the Assistant to show you notifications

Preferred input
Default to using voice instead of keyboard

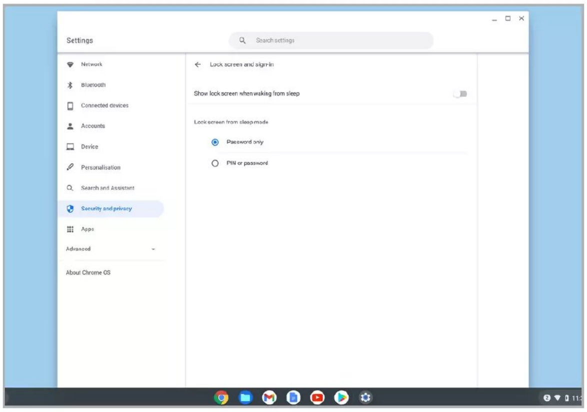
Google Assistant settings

There are only two options in the Search and Assistant category within the Personalisation page. The first details changing the default search engine from Google to either Bing, or Yahoo! Click on the Configure button to make the choice. Clicking the Google Assistant option will open up a varied set of new options. You opt to use the Google Assistant, provide related info on the screen when dealing with your query, and whether 'OK Google' is active only when the Chromebook is plugged in to save on power.

The Retrain option is always worth exploring if you find that the Google Assistant is beginning to ignore you, or picking up someone else instead of you. Click the Retrain button, then agree to the use of the Google Assistant and from there follow the on-screen instructions. The last item in this section enables you to further improve the results from your questions. Click on the Google Assistant Settings link at the bottom of the section. Within here you can choose options such as your preferred temperature unit, the language of the Assistant, and what Services are being used.

Security and Privacy

Securing and making your Chrome OS account as private as possible are some of the first options you should look to. Here's how you can improve both.


Settings
Search settings
Network
Bluetooth
Connected devices
Accounts
Device
Personalisation
Search and Assistant
Security and privacy
Apps
Advanced
About Chrome OS

Lock screen and sign-in

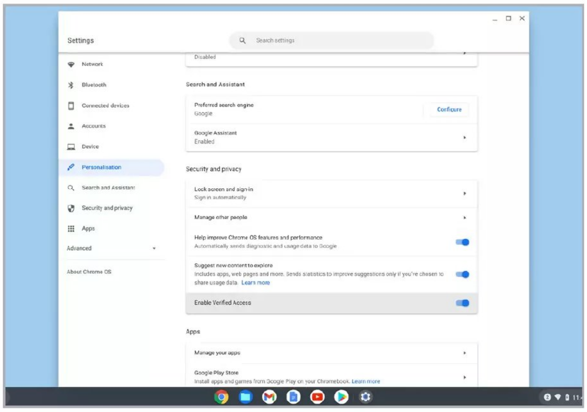
Show lock screen when waking from sleep

Lock screen from sleep mode

● Password only

○ PIN or password

The first option here is configuring the Chrome OS Lock Screen and Sign-In. Click the link, and you'll be asked to enter your Google Account password to continue. You'll then be able to activate the Lock Screen when waking from Sleep Mode, and choose whether to unlock the Chromebook with the password, or a combination password and PIN. The next two options in the Security and Privacy category detail the use of Chrome OS to send diagnostic and usage data to Google to help improve features and performance, and to allow the OS to suggest new content for the user to explore. You can opt to enable or disable both options.


Settings
Search settings
Network
Bluetooth
Connected devices
Accounts
Device
Personalisation
Search and Assistant
Security and privacy
Apps
Advanced
About Chrome OS
Configure

Disabled

Search and Assistant

Preferred search engine
Google

Google Assistant
Enabled

Security and privacy

Lock screen and sign-in
Sign in automatically

Manage other people

Help improve Chrome OS features and performance
Automatically sends diagnostic and usage data to Google

Suggest new content to explore
Includes apps, web pages and more. Sends statistics to improve suggestions only if you've chosen to share usage data. Learn more

Enable Verified Access

Apps

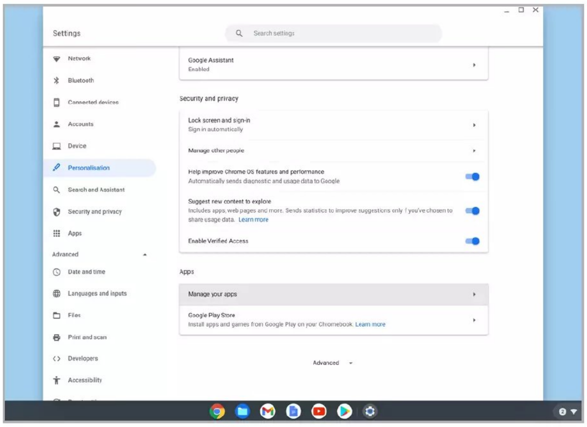
Manage your apps

Google Play Store
Install apps and games from Google Play on your Chromebook. Learn more

Manage Other People is a Security and privacy option that allows you to enable or disable the Guest account, display Chrome OS usernames and Account Images at the sign-in screen, and the ability to restrict sign-in to Chrome OS to certain users. The last option, Enable Verified Access, sounds a little misleading as you would expect it to only enable access to verified, Chrome OS, accounts. However, it is used to identify machines and users for proprietary or licensed access for enterprise and media. It's recommended to leave this enabled in the panel by default.

Apps

You can personalise how the Apps installed on your Chromebook are handled too, including apps downloaded and installed via the Google Play Store.


Settings
Search settings
Network
Bluetooth
Connected devices
Accounts
Device
Personalisation
Search and Assistant
Security and privacy
Apps
Advanced
Date and time
Languages and inputs
Files
Print and scan
Developers
Accessibility
Advanced

Google Assistant
Enabled

Security and privacy

Lock screen and sign-in
Sign in automatically

Manage other people

Help improve Chrome OS features and performance
Automatically sends diagnostic and usage data to Google

Suggest new content to explore
Includes apps, web pages and more. Sends statistics to improve suggestions only if you've chosen to share usage data. Learn more

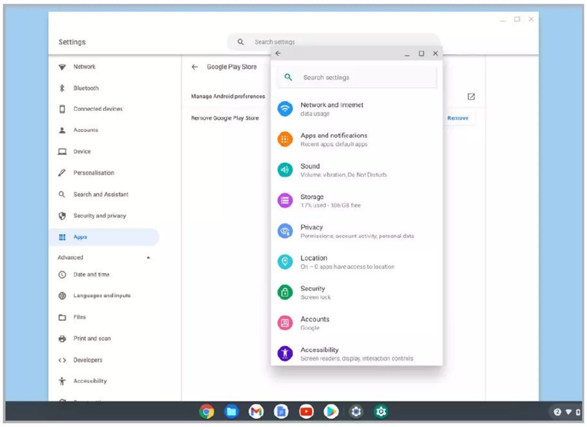
Enable Verified Access

Apps

Manage your apps

Google Play Store
Install apps and games from Google Play on your Chromebook. Learn more

There are only two options available within the Apps category of the Personalisation section: Manage Your Apps, and, Google Play Store. Start by clicking on the first option – Manage Your Apps. The Manage Your Apps section will list all the currently installed Chrome OS apps on the system. You can click each of the apps in turn to delve deeper into how they interact with the system, or to Pin them to the Shelf. Options within here include whether to enable permissions to access the webcam, microphone and geo location.


Settings
Search settings
Network
Bluetooth
Connected devices
Accounts
Device
Personalisation
Search and Assistant
Security and privacy
Apps
Advanced
Date and time
Languages and inputs
Files
Print and scan
Developers
Accessibility
Remove
Search settings

Google Play Store

Manage Android preferences

Remove Google Play Store

Network and Internet
data usage

Apps and notifications
Recent apps, default apps

Sound
Volume, vibration, Do Not Disturb

Storage
17% used - 106 GB free

Privacy
Permissions, account activity, personal data

Location
On – 0 apps have access to location

Security
Screen lock

Accounts
Google

Accessibility
Screen readers, display, interaction controls

One of the best advances in Chrome OS is the ability to install and use Google Play Store apps. Although some are designed specifically for tablets or phones, most will run perfectly well inside of Chrome OS. Using the Google Play Store option, you can manage the Android preferences. Clicking Manage Android Preferences allows you to further drill into the specifics of the currently used Android Google Play Store apps installed in the system. It'll bring up a new window, with the list of apps that you can click and configure individually.

The Chrome OS Desktop

Ready to dive into Chrome OS and see what it can do? Let's take a moment to navigate the desktop and see what each aspect of it does.

1 Background/Wallpaper

As with any other operating system, Chrome OS features a customisable background, or wallpaper, for you to change and personalise. There are plenty available from within Chrome OS itself, including works of art, fantasy, and even solid colours; you're also able to include your own images.

2 Welcome Page

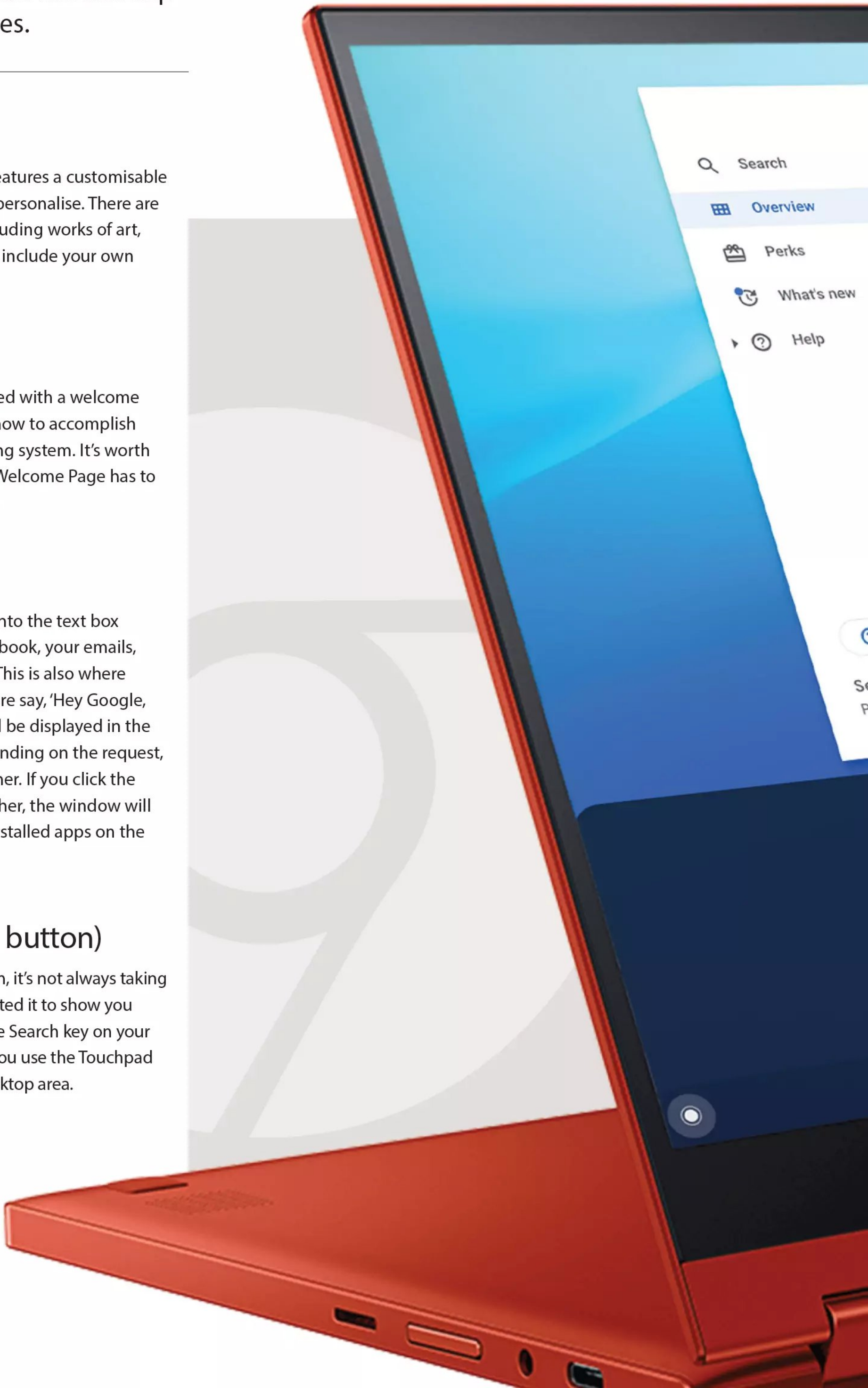
When you first log into Chrome OS you're presented with a welcome page. This includes details and quick tutorials on how to accomplish the most frequently used tasks within the operating system. It's worth spending a few minutes going through what the Welcome Page has to offer, to help familiarise yourself with the new OS.

3 Searching & Apps

Still within the Launcher, you can enter anything into the text box provided to search the files stored on the Chromebook, your emails, YouTube videos, and even the Google Play Store. This is also where any 'Hey Google' requests are processed. If you were say, 'Hey Google, what's the weather like tomorrow?', the results will be displayed in the Launcher – or opened as a separate window depending on the request, but the actual command is handled by the Launcher. If you click the up-pointing arrow at the top-middle of the Launcher, the window will fill the screen and you can view all the currently installed apps on the Chromebook.

4 The Launcher (Everything button)

This is called the Launcher, or the Everything Button, it's not always taking up so much room on the desktop, we simply activated it to show you what it looks like. To open the Launcher, you tap the Search key on your Chromebook keyboard (the magnifying glass), or you use the Touchpad to click the circle in the bottom-left of the main desktop area.

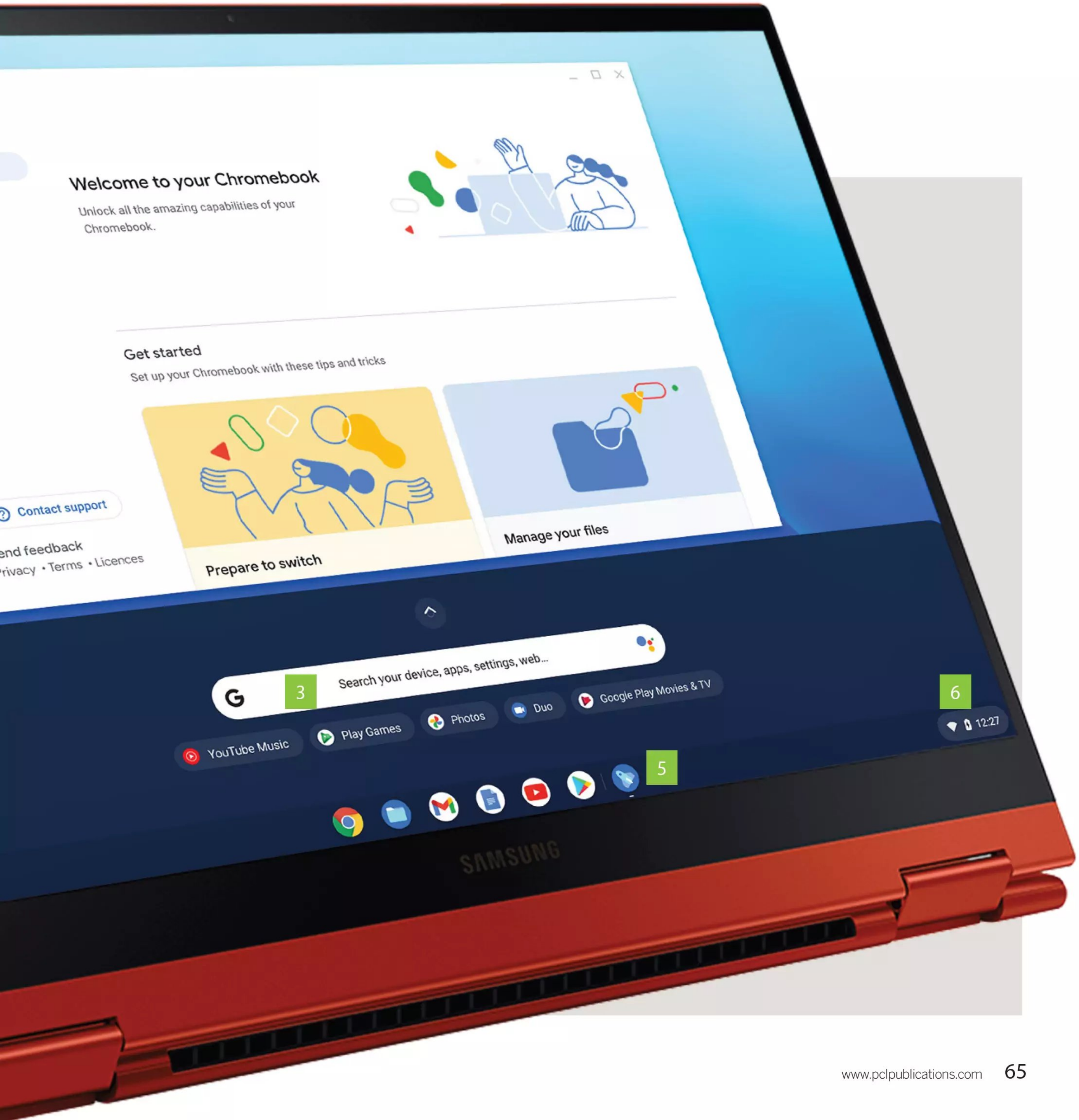


5 The Shelf

The bar below the Launcher is called the Shelf. This is a quick-launch app, file and folder shortcut launcher similar to that found on macOS, and some Linux distros. The default apps: Chrome, Files, Gmail, Google Docs, YouTube and the Google Play Store, can all be changed and removed, and it's easy to Pin new apps, files and folders, to the Shelf. The Rocket Ship icon, by the way, is the Welcome Page that's currently open on the desktop. Any open apps are displayed in the Shelf for easy access when you're switching windows.

6 Notifications, Settings, and More

The Wifi, battery level and time icons in the bottom-right of the Shelf can be clicked to reveal a lot more. In here you'll find any recent notifications you've not dismissed, your current profile image, the option to Sign Out of the Chrome OS as well as Shutdown or Restart the Chromebook. There are also options to lock the screen, enter the Chrome OS Settings pages, change Wifi network, enable or disable Bluetooth, capture the screen, turn the Night Light on or off, increase volume and display brightness.



Welcome to your Chromebook

Unlock all the amazing capabilities of your Chromebook.

Get started

Set up your Chromebook with these tips and tricks

Prepare to switch
Manage your files
Contact support
end feedback
rivacy • Terms • Licences
Search your device, apps, settings, web...
3
YouTube Music
Play Games
Photos
Duo
Google Play Movies & TV
6
12:27
5
SAMSUNG

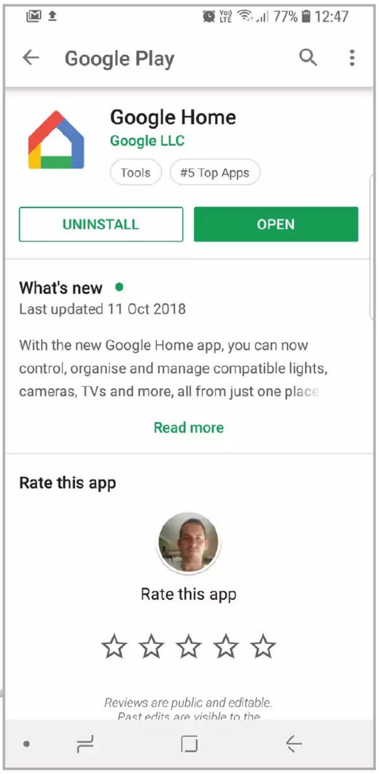
Google Home First Time Set Up

Setting up your Google Home device properly for the first time will make using it much easier, so take the time to get things right. You will need to have the speaker, an Android device, a Google account and a working Wi-Fi connection that both Android and Home devices can connect to.

Setting Up Google Home

All of the setup for your Google Home speaker is done through the Google Home app for Android. Use this app for future access and changes to the settings.

1 Plug in your Google Home device and wait for the audio cue to show it is ready to be set up. Make sure that the switch that controls the microphone is set to "On". If you accidentally turn the microphone off on your speaker, the device will inform you accordingly.



77% 12:47

Google Play

Google Home
Google LLC
Tools #5 Top Apps

UNINSTALL OPEN

What's new
Last updated 11 Oct 2018

With the new Google Home app, you can now control, organise and manage compatible lights, cameras, TVs and more, all from just one place

Read more

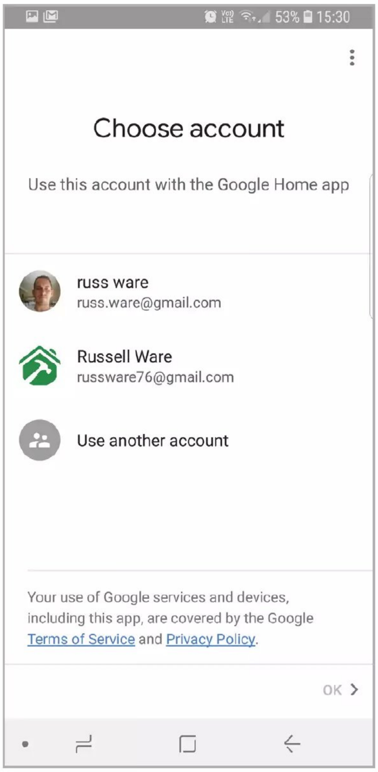
Rate this app

Rate this app

☆ ☆ ☆ ☆ ☆

Reviews are public and editable.
Past edits are visible to the

2 Currently, Google Home is only available for Android devices, and most have it pre-installed. If you don't already have it, find the app on the Google Play Store, download and install it on your mobile device (phone or tablet). Once installed, open the app.



53% 15:30

Choose account

Use this account with the Google Home app

russ ware
russ.ware@gmail.com

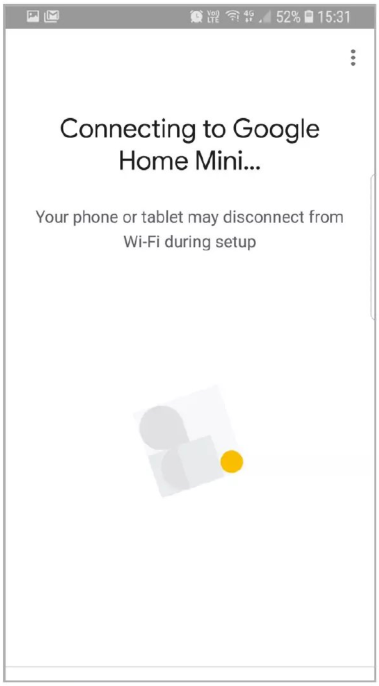
Russell Ware
russware76@gmail.com

Use another account

Your use of Google services and devices, including this app, are covered by the Google Terms of Service and Privacy Policy.

OK

3 You will need to make sure that your mobile device is connected to the same Wi-Fi network you intend to use for the Google Home speaker. It won't work if you are using a 4G network to connect. Once connected, open the Home app and confirm which Google account you will use to log in.

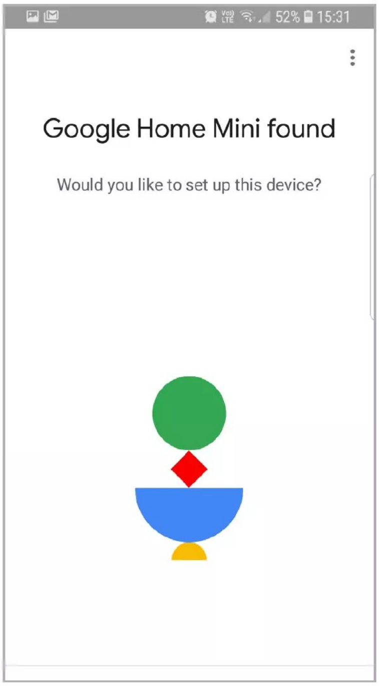


52% 15:31

Connecting to Google Home Mini...

Your phone or tablet may disconnect from Wi-Fi during setup

4 The Google Home app scans for nearby devices that are plugged in and ready to set up. If no devices are found, and you're setting up a device, tap Yes. Make sure that you're near the Google Home device that you're setting up and it's plugged into a wall socket. Then tap Next.

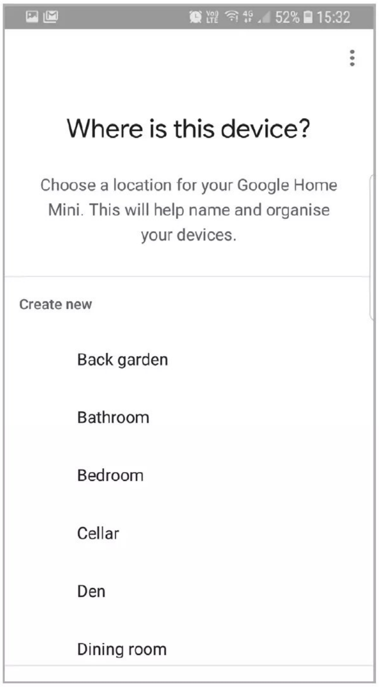


52% 15:31

Google Home Mini found

Would you like to set up this device?

5 Hopefully your device will be found by the app, displayed on screen and you can then tap Next to continue. If you are setting up multiple devices, select the one you want to set up first, and then tap Next. The app will now connect your phone to your new Google Home ready for configuration.



52% 15:32

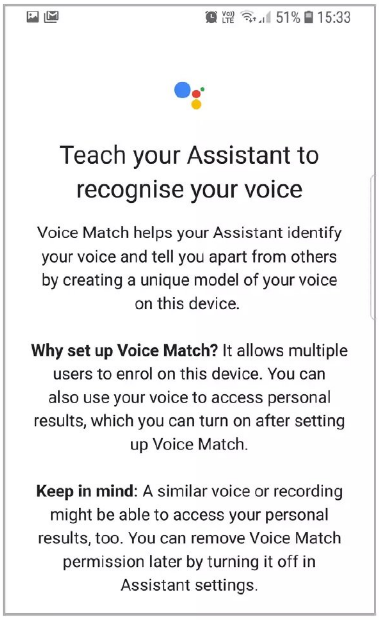
Where is this device?

Choose a location for your Google Home Mini. This will help name and organise your devices.

Create new

- Back garden
- Bathroom
- Bedroom
- Cellar
- Den
- Dining room

6 You should hear a sound on your speaker to show it is connected. You can now continue the setup by selecting the room it will be in (to identify the speaker), choosing your region, and setting the language you want to use. Next, you will need to connect to your Wi-Fi network.



51% 15:33

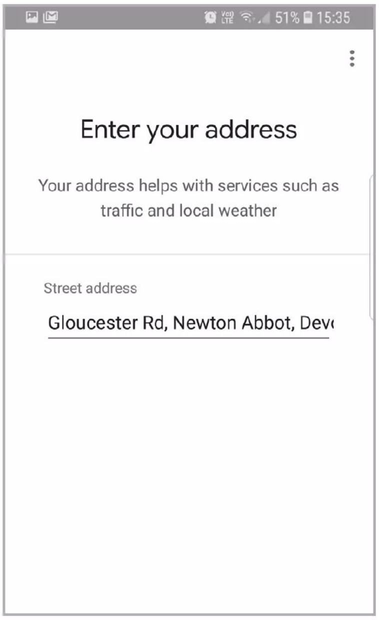
Teach your Assistant to recognise your voice

Voice Match helps your Assistant identify your voice and tell you apart from others by creating a unique model of your voice on this device.

Why set up Voice Match? It allows multiple users to enrol on this device. You can also use your voice to access personal results, which you can turn on after setting up Voice Match.

Keep in mind: A similar voice or recording might be able to access your personal results, too. You can remove Voice Match permission later by turning it off in Assistant settings.

7 Next, to improve your Google Home experience, set up Voice Match. Voice Match allows multiple users to use the same device and get personalised results. Follow the prompts on screen to teach Google to recognise you. You can remove Voice Match settings later if you wish.



51% 15:35

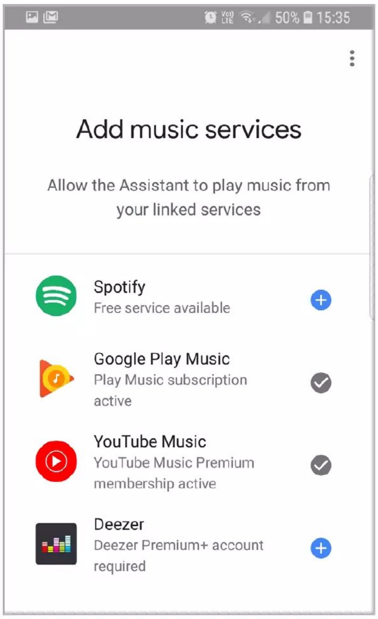
Enter your address

Your address helps with services such as traffic and local weather

Street address

Gloucester Rd, Newton Abbot, Dev

8 The Google Home app will ask for access to use your location to pre-fill your address. This is the address where your device is located. If you allow access, your address will be pre-filled; otherwise, you will need to enter it manually. When your address is entered tap Next.



50% 15:35

Add music services

Allow the Assistant to play music from your linked services

- Spotify – Free service available
- Google Play Music – Play Music subscription active
- YouTube Music – YouTube Music Premium membership active
- Deezer – Deezer Premium+ account required

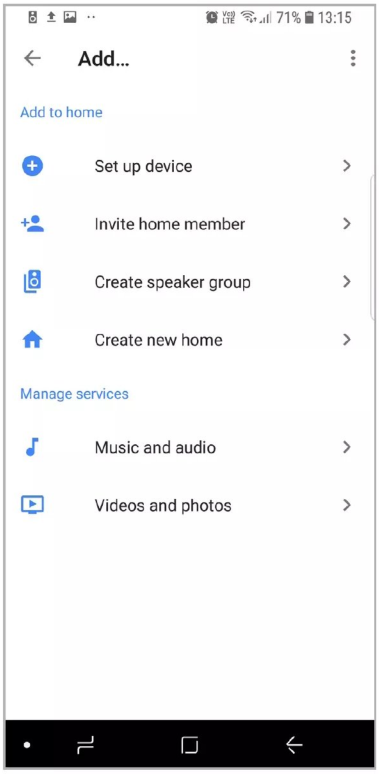
9 You can now add your favourite services, for example music. Spotify, Google Play Music, YouTube Music and Deezer are just some of those available. If you add more than one, you will need to choose a default music service. Follow the further on-screen prompts to complete the setup.

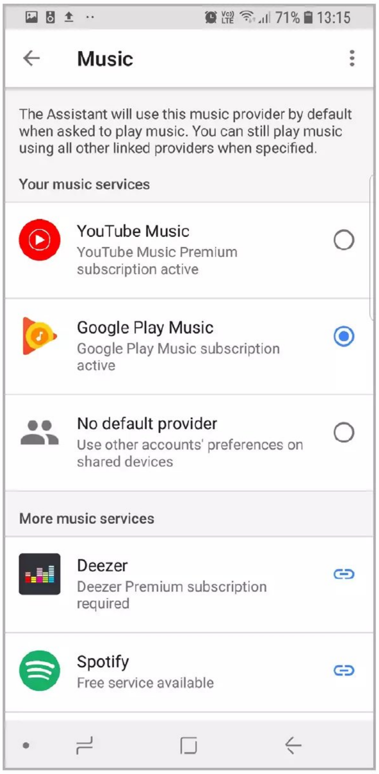
Listening to Music on Google Home

Listening to the music you want on Google Home requires you to set up the music services it uses. To do this you need to know how to ask the speaker to play, stop, pause, shuffle and skip the music you want! Let's take a look at just how you listen to music on Google Home.

Choosing Music Services

You can connect your speaker to a great variety of different music services, from Google Play Music to Spotify and Deezer, which will give you access to millions of songs.


71% 13:15
Add...
Add to home
Set up device
Invite home member
Create speaker group
Create new home
Manage services
Music and audio
Videos and photos


Music

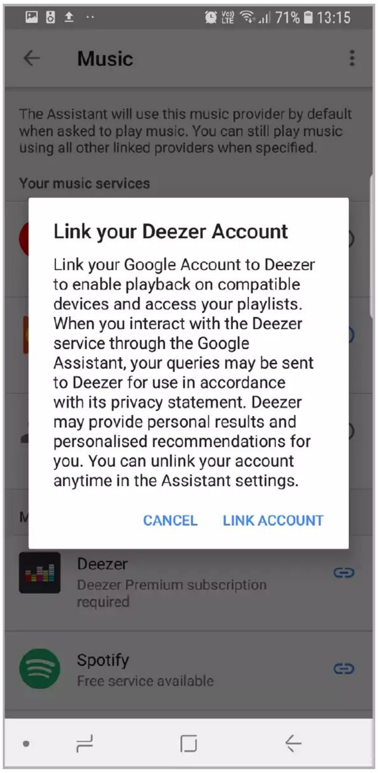
The Assistant will use this music provider by default when asked to play music. You can still play music using all other linked providers when specified.

Your music services

- YouTube Music – YouTube Music Premium subscription active ○
- Google Play Music – Google Play Music subscription active ●
- No default provider – Use other accounts' preferences on shared devices ○

More music services

- Deezer – Deezer Premium subscription required
- Spotify – Free service available


Link your Deezer Account

Link your Google Account to Deezer to enable playback on compatible devices and access your playlists. When you interact with the Deezer service through the Google Assistant, your queries may be sent to Deezer for use in accordance with its privacy statement. Deezer may provide personal results and personalised recommendations for you. You can unlink your account anytime in the Assistant settings.

71% 13:15
Music
CANCEL
LINK ACCOUNT
Deezer
Deezer Premium subscription required
Spotify
Free service available

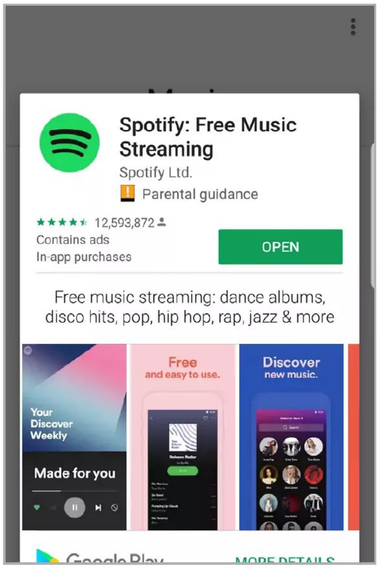
1 You will have been asked to choose a music service during the setup of the Google home speaker, but if you skipped this step, or want to add more, you can add services at any time. Open the Google Home app on your Android device and tap the +Add button on the Home tab. Then tap Music and audio.

2 If you have a Google Play Music or YouTube Red account (connected to the current Google account), these services will be linked automatically to the Home app. To link one of the other music services (Spotify, etc.), tap the small link icon next to each one, read the information in the box that pops up, and then tap Link Account.

3 You will now be taken to the individual music service Login screen, where you will have to log in to your account (or create a new account if you don't already have one set up). Once this is done successfully, you will be returned to the Home app where you should now see the music service linked to your Home device.

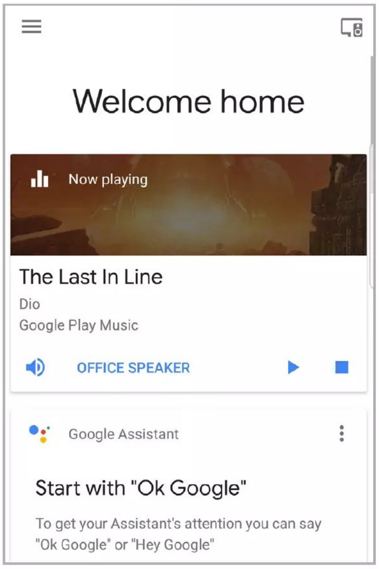
Playing Music on Google Home

Once you have chosen all of the music services you want to use, you can start playing music through your Google Home speaker quickly and easily.


Spotify: Free Music Streaming
Spotify Ltd.
Parental guidance
12,593,872
Contains ads
In-app purchases
OPEN
Your Discover Weekly
Made for you
Free and easy to use.
Discover new music.
Google Play
MORE DETAILS

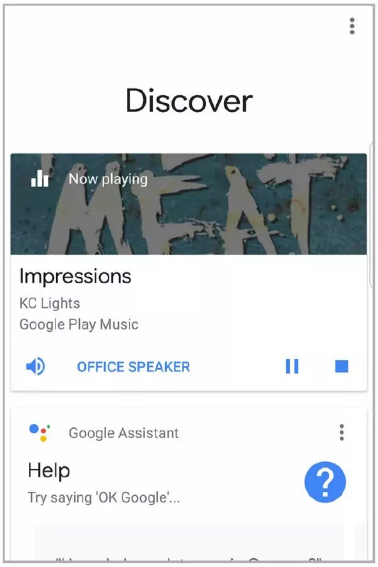
Free music streaming: dance albums, disco hits, pop, hip hop, rap, jazz & more

1 Now you have your music services linked to Google Home, you can start listening. Exactly what music you can listen to depends on which service you are using. For example, you may not be able to request certain songs by name if you only have a Spotify Free account.

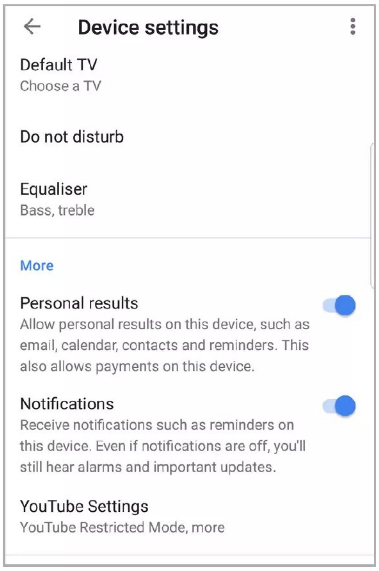

Welcome home
Now playing
The Last In Line
Dio
Google Play Music
OFFICE SPEAKER
Google Assistant
Start with "Ok Google"

To get your Assistant's attention you can say "Ok Google" or "Hey Google"

2 To play a specific song, say "Hey Google, play <song name>," "Hey Google, play <song name> by <artist name>," or "…play <song name> on <music service>." Certain music services will also allow you to search for similar songs by saying, "…play songs like <song name>."


Discover
Now playing
Impressions
KC Lights
Google Play Music
OFFICE SPEAKER
Google Assistant
Help
Try saying 'OK Google'...

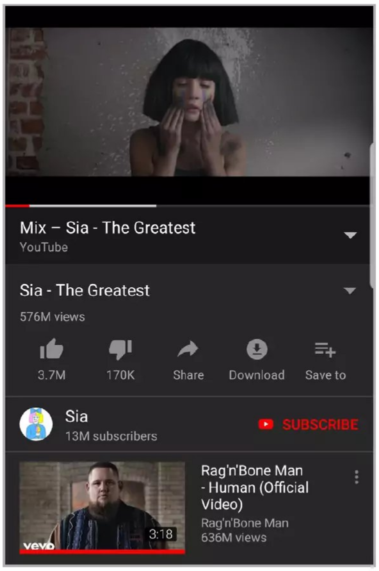
3 There are some specific commands for the different music services, but all of them will react to the general music control commands. These are: "Play," "Shuffle," "Pause," "Resume," "Stop," "Next," "Skip," "What song is playing?" "Volume up/down," or "Set volume to 5."


Device settings
Default TV
Choose a TV
Do not disturb
Equaliser
Bass, treble
More
Personal results
Notifications
YouTube Settings
YouTube Restricted Mode, more

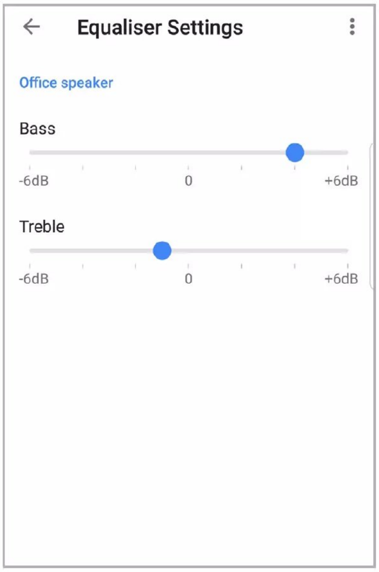
Allow personal results on this device, such as email, calendar, contacts and reminders. This also allows payments on this device.

Receive notifications such as reminders on this device. Even if notifications are off, you'll still hear alarms and important updates.

4 Guests and housemates cannot access your library content if you've set up Voice Match. However, you can give them access by uploading your music to their account. If you haven't set up Voice Match, guests and housemates can access music from your library in the same way you can.


Mix – Sia - The Greatest
YouTube
Sia - The Greatest
576M views
3.7M
170K
Share
Download
Save to
Sia
13M subscribers
SUBSCRIBE
Rag'n'Bone Man - Human (Official Video)
Rag'n'Bone Man
636M views
3:18
vevo

5 You can also play music from your desktop Chrome browser on your Google Home speaker (as long as the computer is connected to the same Wi-Fi network). Open the browser and start playing the music. Click the Chrome menu button, select Cast and choose the speaker to play through.


Equaliser Settings
Office speaker
Bass
-6dB
0
+6dB
Treble
-6dB
0
+6dB

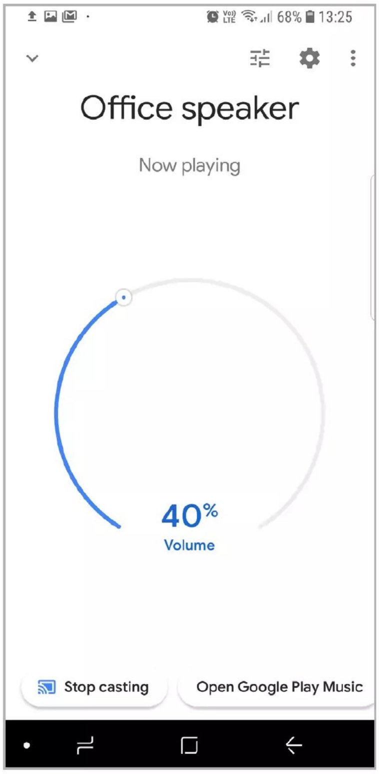
6 You can use the Home app on your Android device to control the music that is playing on your speaker. Open the app and tap the speaker name on the home tab. Here you will see play and pause controls, along with a volume slider. Tap the Equaliser button to change bass and treble levels.

Playing Music Using Bluetooth

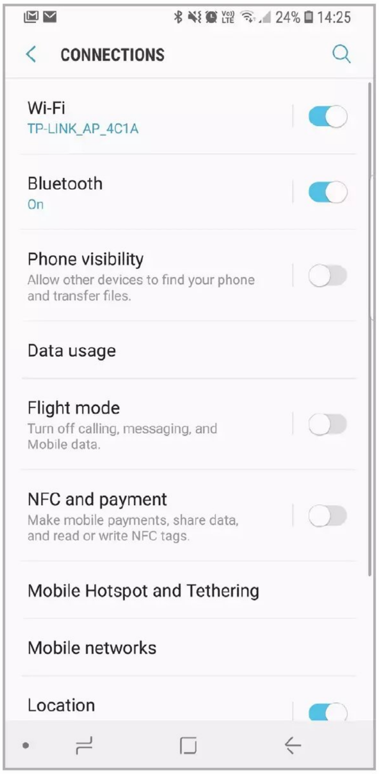
As well as being connected by Wi-Fi, your Google Home device can also be used as a Bluetooth speaker, playing music that is stored on your phone or tablet or even your laptop. You can also stream music from your Google Home device to a pair of Bluetooth headphones.

Play Music on the Home Speaker

Being able to play music stored on your phone or tablet through the Google Home speaker is a useful addition to its bag of tricks.



1 Open the Google Home app and tap the name of the device you want to connect with via Bluetooth. In the top right corner of the device info card, tap the device settings menu and then find the Paired Bluetooth devices heading and tap it. In the next screen, tap the Enable Pairing Mode button.



Wi-Fi
TP-LINK_AP_4C1A

Bluetooth
On

Phone visibility
Allow other devices to find your phone and transfer files.

Data usage

Flight mode
Turn off calling, messaging, and Mobile data.

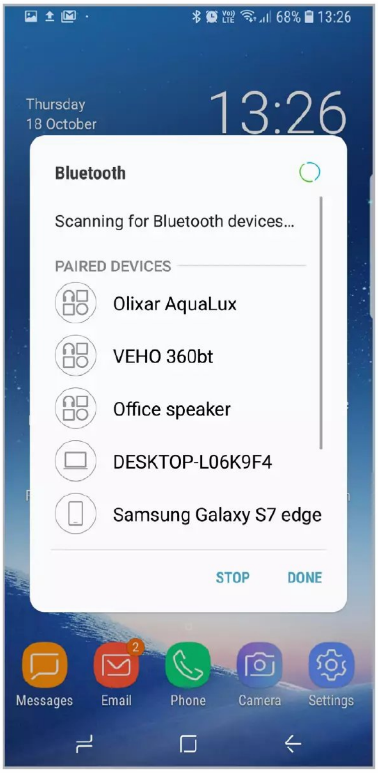
NFC and payment
Make mobile payments, share data, and read or write NFC tags.

Mobile Hotspot and Tethering

Mobile networks

Location

2 Now open the Bluetooth settings on your mobile device and turn Bluetooth on. The device will scan for available connections and you should see the name you gave your speaker appear in the list. If not, tap the Scan button to make your device look again. Tap the speaker name to pair the devices using Bluetooth.

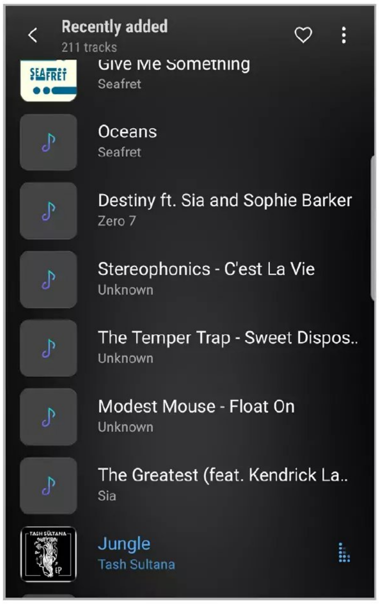


Bluetooth

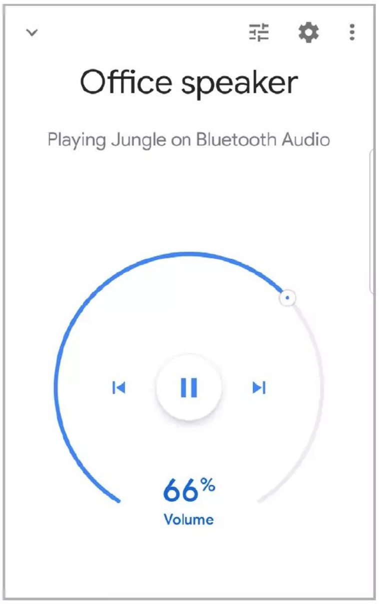
Scanning for Bluetooth devices...

PAIRED DEVICES
- Olixar AquaLux
- VEHO 360bt
- Office speaker
- DESKTOP-L06K9F4
- Samsung Galaxy S7 edge

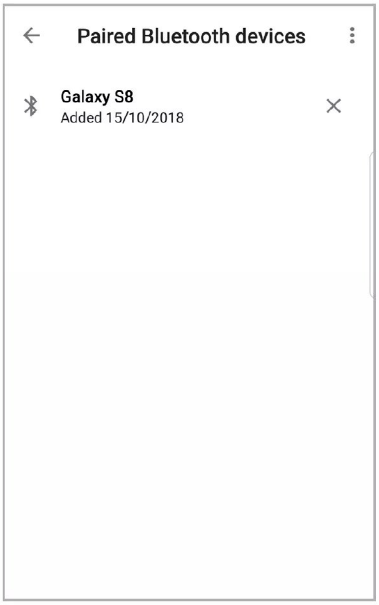
3 If the Google Home app is paired with multiple speakers, it will default to the most recently paired device. You can tell Google Home to connect by saying "Hey Google, connect to Bluetooth," or you can change which speaker is paired by opening the Bluetooth settings on your device and selecting the one you want.


Recently added
211 tracks
Give Me Something
Seafret
Oceans
Seafret
Destiny ft. Sia and Sophie Barker
Zero 7
Stereophonics - C'est La Vie
Unknown
The Temper Trap - Sweet Dispos..
Unknown
Modest Mouse - Float On
Unknown
The Greatest (feat. Kendrick La..
Sia
Jungle
Tash Sultana

4 To play music through the connected speaker, just use whichever music player you normally use to play your device music. When connected to the speaker using Bluetooth, anything you play (from MP3 files to YouTube videos) will play through the speaker.


Office speaker
Playing Jungle on Bluetooth Audio
66%
Volume

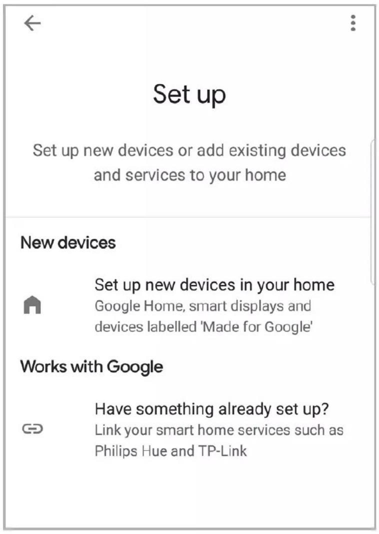
5 You can also use voice commands to tell your Google Home speaker to play music that is stored on your mobile device. Just say "Hey Google <song name> or <playlist name>." You can use all of the normal music voice commands to pause, stop, skip, change volume, etc.


Paired Bluetooth devices
Galaxy S8
Added 15/10/2018

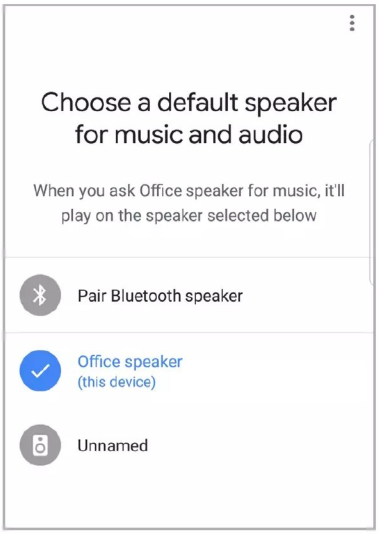
6 To unpair the devices, open the Google Home app and find the device card for the Google Home that you want to unpair. Open the device settings and then go to Paired Bluetooth devices. Tap the X next to the device that you want to unpair and then tap Unpair.

Play Music on Bluetooth headphones

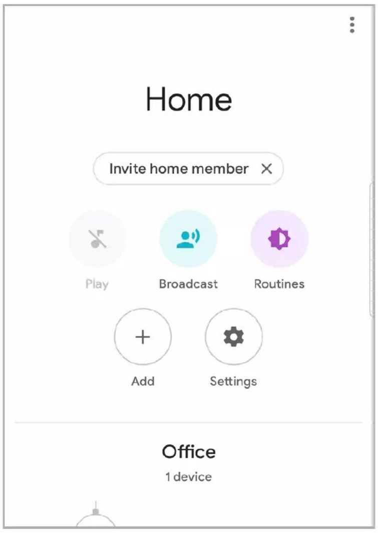
You can also connect a set of Bluetooth headphones (or another Bluetooth speaker) through the Google Home speaker and app.


Set up
Set up new devices or add existing devices and services to your home
New devices
Set up new devices in your home
Google Home, smart displays and devices labelled 'Made for Google'
Works with Google
Have something already set up?
Link your smart home services such as Philips Hue and TP-Link

1 Turn on your Bluetooth headphones and make sure that they're in pairing mode; this is normally done by pressing the Pairing button on your headphones (a light will usually flash to tell you). Now open the Google Home app on your Android device and select the speaker you want to connect to.


Choose a default speaker for music and audio
When you ask Office speaker for music, it'll play on the speaker selected below
Pair Bluetooth speaker
Office speaker
(this device)
Unnamed

2 Tap the Settings button and scroll down to find the Bluetooth options. Tap "Default music speaker" and then tap "Pair Bluetooth speaker". It will then scan for available headphones (or speakers) and allow you to connect by tapping the name in the list of available devices.


Home
Invite home member
Play
Broadcast
Routines
Add
Settings
Office
1 device

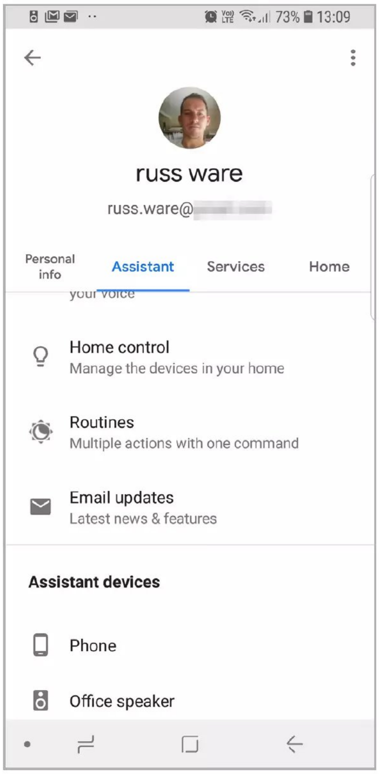
3 You can only have one connected speaker or headphones to play music through at a time. Once you pair and connect your speaker to a Google Home, it will auto-connect unless the speaker is disconnected or turned off. You can now use normal Google Assistant commands to play music.

Google Home Routines

Routines are a set of actions that your Google Home can perform when activated by a single voice command. You can customise existing pre-set routines in the Google Home app, or you can create your own personalised routines from scratch, using a wide variety of available actions.

Create and Manage Routines

Learn how to customise, create and use Routines with your Google Home speaker and the Google Home app on your mobile device.



73% 13:09

russ ware

russ.ware@[redacted]

Personal info | **Assistant** | Services | Home

Home control
Manage the devices in your home

Routines
Multiple actions with one command

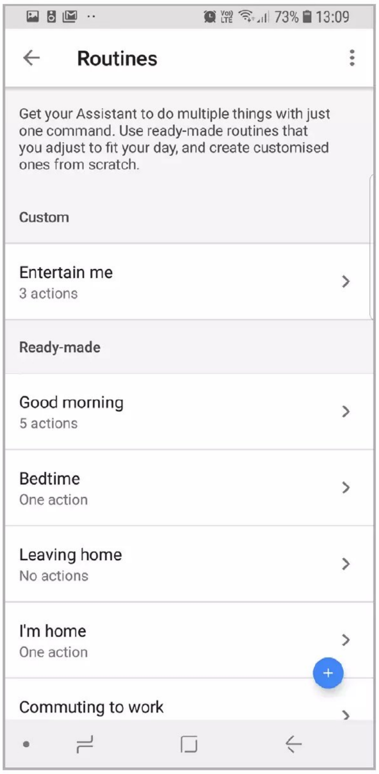
Email updates
Latest news & features

Assistant devices

Phone

Office speaker

1 Your Google Home app comes with several pre-set routines. To view or edit these, tap the Menu button at the top left, and select "More settings". Scroll down and tap the "Routines" section. Here you will see displayed all of the existing routines, for example "Good morning" or "Bedtime".



73% 13:09

Routines

Get your Assistant to do multiple things with just one command. Use ready-made routines that you adjust to fit your day, and create customised ones from scratch.

Custom

Entertain me
3 actions

Ready-made

Good morning
5 actions

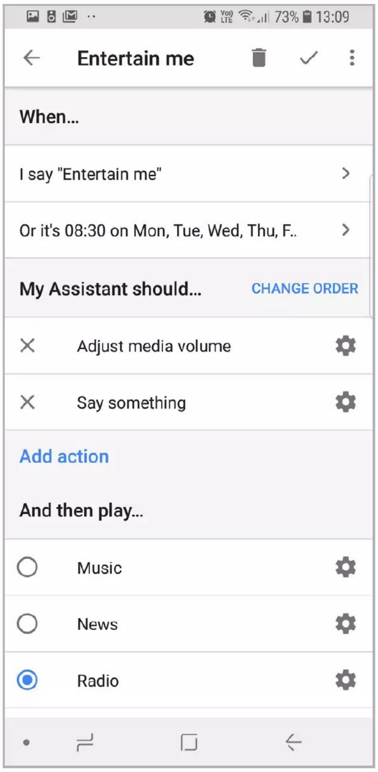
Bedtime
One action

Leaving home
No actions

I'm home
One action

Commuting to work

2 Below each routine name, you will see the number of associated actions. Tap a routine to start editing it. While all routines can be edited, you will notice they have differing numbers of actions that can be added. The pre-set routines illustrate this difference.



73% 13:09

Entertain me

When...

I say "Entertain me"

Or it's 08:30 on Mon, Tue, Wed, Thu, F..

My Assistant should... CHANGE ORDER

Adjust media volume

Say something

Add action

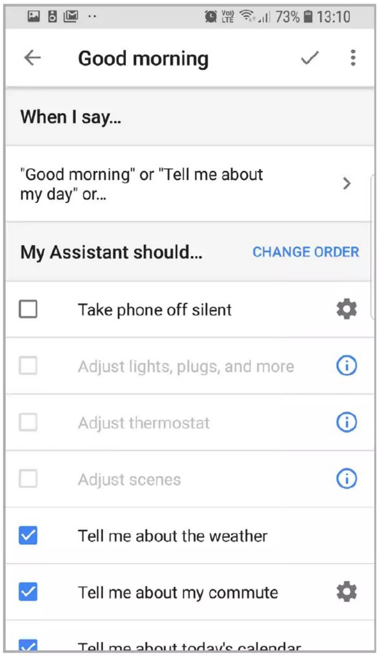
And then play...

○ Music

○ News

● Radio

3 Each Routine is split into sections. These are: "When I say…", (the command) "My assistant should…", (the main actions to perform) followed by "And then play…" (additional actions). You can manage and edit each of these sections individually to create the routine you want.



Good morning

When I say...

"Good morning" or "Tell me about my day" or...

My Assistant should... CHANGE ORDER

☐ Take phone off silent

☐ Adjust lights, plugs, and more

☐ Adjust thermostat

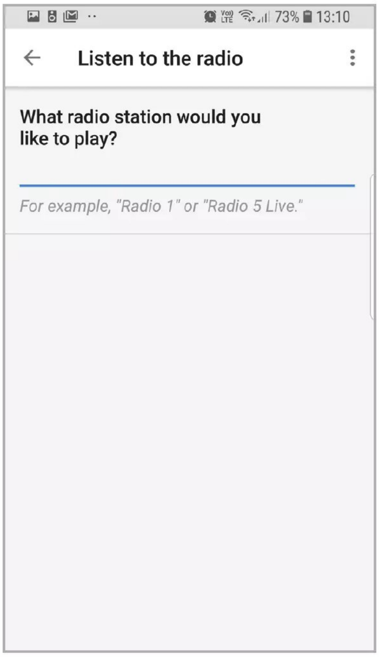
☐ Adjust scenes

☑ Tell me about the weather

☑ Tell me about my commute

☑ Tell me about today's calendar

4 For example, the single command "Good morning" could take the phone off silent; tell you the weather, reminders and your commute information. It could then give you the news headlines from a variety of sources (BBC, CNN, etc.) before playing your favourite radio station.

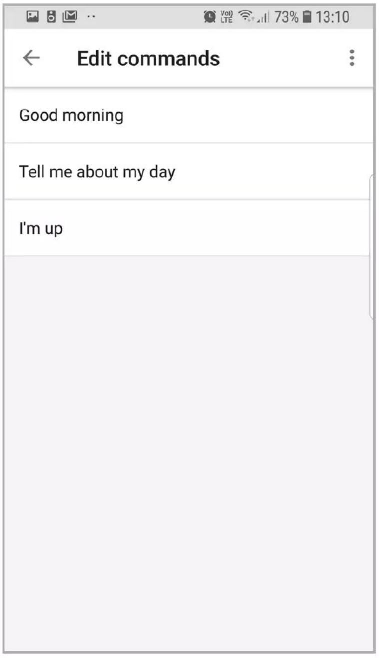


Listen to the radio

What radio station would you like to play?

For example, "Radio 1" or "Radio 5 Live."

5 Tap the checkbox next to each action to add or remove it from the routine. If the action has a gear icon next to it, you can tap this to see further settings. For example, the Play Radio action allows you to choose the radio station you want to use, and music settings lets you choose the music source.



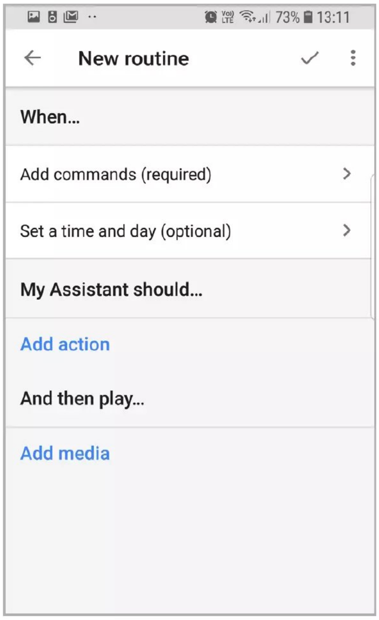
Edit commands

Good morning

Tell me about my day

I'm up

6 You can also change the command that activates the actions (although you will still need to say "Hey/Okay Google" first). Most pre-set routines have a couple of commands already set, but you can add a new one by tapping the top section, then tap + and type your desired command.



New routine

When...

Add commands (required)

Set a time and day (optional)

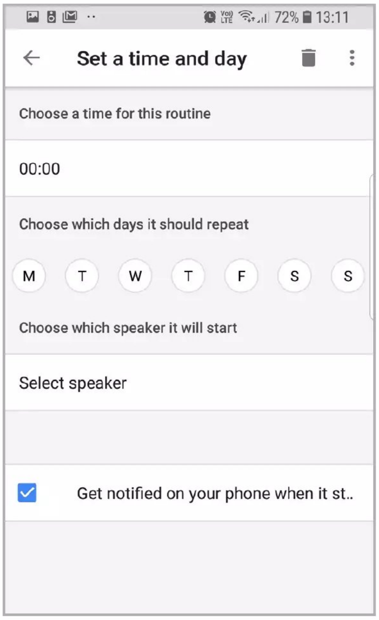
My Assistant should...

Add action

And then play...

Add media

7 If none of the pre-set routines meet your needs, you can create your own from scratch. Open the routines settings in the Google Home app and tap the + button. Start by editing the command you want to use to activate it (e.g. "Good Morning"). Simple commands are the most effective, so keep it short for best results.



Set a time and day

Choose a time for this routine

00:00

Choose which days it should repeat

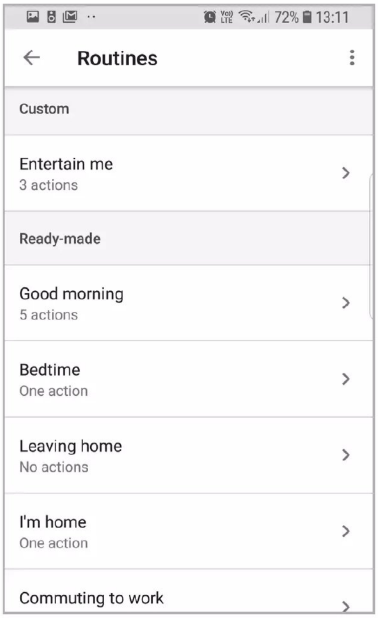
M T W T F S S

Choose which speaker it will start

Select speaker

☑ Get notified on your phone when it st..

8 If you wish, you can set a day/time of day when the routine activates automatically although you can still activate the routine at other times with the command. Next, add an action, either by typing the name of a Google Assistant command, or by tapping "Choose popular actions", selecting one and tapping "Add".



Routines

Custom

Entertain me
3 actions

Ready-made

Good morning
5 actions

Bedtime
One action

Leaving home
No actions

I'm home
One action

Commuting to work

9 When you've finished setting up the new routine, tap the check mark at the top and the screen will change to display all routines. Your newly created routine will be given the name of the command word you used (e.g. "Entertain me"). Test the routine by speaking the command to your Google Home speaker.

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Our Experts Dive Right into the Late 2023 build!
Are You Making the Most from AI in Windows 11?
10 Ways to get more from Copilot
Find out how to Master the Amazing Copilot app!
Have You Really Set Up Windows 11 Correctly?
Avoid any Errors & Erase those you have made!

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